AD775 318

MBRARY
TECHNICAL REPORT SECTION
NAVAL POSTGRADUATE SCHOOL
MONTEREN, CALIFORNIA 98940

TECHNICAL REPORT
December, 1973

EXPRESSED PREFERENCES AND ORGANIZATIONAL PRACTICES EXPERIENCED BY NAVY OFFICERS

David G. Bowers

Institute for Social Research University of Michigan Ann Arbor, Michigan

This report was prepared under the Navy Manpower R & D Program of the Office of Naval Research under Contract No. N00014-67-A-0181-0048.

Reproduction in whole or in part is permitted for any purpose of the United States Government. This document has been approved for public release and sale; its distribution is unlimited.

Security Classification

Security Classification			
DOCUMENT CONTI	ROL DATA - R 8	3 D	
(Security classification of title, body of abstract and indexing a	unotation must be e	ntered when the c	overall report is classified)
I. ORIGINATING ACTIVITY (Corporate author)		20. REPORT SE	CURITY CLASSIFICATION
		uncla	ssified
		2b. GROUP	3311160
University of Michigan			
		<u> </u>	
3. REPORT TITLE			
Expressed preferences and organizationa	l practices	experience	d by Navy officers
	. p. a. o o. o	exper remoc	d by havy officers
4. OESCRIPTIVE NOTES (Type of report and, inclusive dates)			
Technical Report April 1, 1972 to June	30, 1973		
5. AUTHOR(S) (First name, middle initial, last name)			
David G. Bowers			
5. REPORT DATE	78. TOTAL NO. O	FPAGES	7b. NO. OF REFS
December, 1973	68		3
Institute for Social Research University of Michigan PORT TITLE Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizational practices experienced by Navy officers Expressed preferences and organizati			
N00014-67-A-0181-0048			
b. PROJECT NO.			
c.	9h. OTHER REPOR	RT NO(S) (Any of	het numbers that may be assigned
	this report)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ind ind ind ind ind individual in
d.			
	<u> </u>		
This document has been approved for pub	lic release	and sale;	
its distribution is unlimited.			
11. SUPPLEMENTARY NOTES	12. SPONSORING	MILITARY ACTIV	VITY
	Office of	Naval Reso	arch, Organizational
			ch Program
		COO MEDEGI.	CH FIUUTAIII

13. ABSTRACT

An earlier report examined the personal background differences in organizational values and preferences of Navymen. The present report looks at similar effects for Navy officers alone.

As in the broader report, young Navy officers report perceptions of a bureaucratic structure which allows too little personal autonomy. Despite the basically positive, constructive relationships which exist with supervisors and peers, the organizational climate is therefore seen in relatively negative terms. Young officers seem by and large relatively dissatisfied.

DD FORM 1473

(PAGE 1)

Security Classification

A-31408

KIY WOHDS	1 (11	LINKA		LINKII		LINKC	
	HOLI	w r	HOLE	w t	HOLE	٧v	
Organizational climate							
Supervisory leadership					:		
Peer leadership							
Peer relations					İ	i	
Group processes							
Age							
Education							
Community of origin							
Region of origin							
Organizational values						1	
Organizational preferences							
Satisfaction							
Job challenge							
Job characteristics							
Non-economic job factors							
Economic job factors							
Life style factors							
LITE Style Tuctors							
					-		
				İ			

An earlier report in the present series studied the organizational leadership and job condition preferences of a sample of Navymen drawn from both commissioned and enlisted ranks (Bowers, 1973). Among its principal findings were the following:

- (1) Younger persons are less willing to accept autocratic, directive management practices than their elders are, and young Navymen are the least accepting of all... More even than their civilian age counterparts, young Navymen attach importance to being able to control their personal lives, to not being "bossed," to having adequate free time, and to not being hemmed in by longstanding rules and regulations which no one seems able to explain.
- (2) Age has, in and of itself, a decided impact upon preferences.

 With greater age comes the desire for closer collaborative relations with one's peers and for more effective teamwork.
- (3) Among enlisted men at least, rank has an effect over and above the effects of self-selection, education, and age.

 Preferences for collaborative leadership styles rise with rank.
- (4) Aversion to autocratic management practices increases with educational levels among Navymen as among civilians.

A second, companion report presented a diagnostic summary of the practices experienced by these same Navymen (Bowers & Franklin, 1973). The findings from this report complement those in the report already cited:

- (1) The Navy as a functioning organization falls near the lower border of what the <u>Survey of Organizations</u> national array defines as the "normal" response range.
- (2) The overall level conceals a difference between ship and shore units, with the latter (shore) scoring at considerably higher levels on nearly all measures.
- (3) Age appears as a definite moderator variable. The shipboard subsample contains nearly twice the proportion of persons 24 years of age and younger contained in the shore-based subsample. When age effects are removed statistically, approximately half of the ship-shore difference disappears.
- (4) Young Navy respondents report experiencing worse organizational practices than either (a) older Navymen, or (b) civilians their own age.

As stated, these findings have been cast in terms of the Navy as a whole, with few distinctions made between officers and enlisted personnel. Furthermore, since approximately seven out of eight respondents represent the enlisted ranks, the findings are heavily influenced by their perceptions and preferences.

Like enlisted personnel, Navy officers also vary in age and educational level, although not so widely as is true of the former. They come, probably in comparable proportions, from all regions of the country and from all gradations of rural-urban backgrounds. Thus the potential exists for many of the same differences, observed among Navymen in general, to hold for officers as well.

The importance of the presence or absence of these or comparable differences among officers outweighs their numbers, however. If the enlisted ranks represent the vast body of the Navy, the officer corps represents its head. It is, after all, this group which provides guidance, direction, and structure to the whole.

It therefore remains to the present report to consider separately Navy officers, to determine whether those who represent the major portion of the Navy's management structure express patterns similar to, or different from, those expressed by the whole sample.

Methods

Data from the Navy Sample were collected from both ship and shore stations between November 1972 and February 1973.* The surveys were personally administered by personnel from the Institute for Social Research.

Ships were included from both the Atlantic and Pacific Fleets. Individuals in the sample were chosen in proportion to the number of personnel assigned to each ship type. For example, if 35 per cent of the personnel assigned to ships were aboard destroyers, 35 per cent of the individuals in the sample were selected so as to come from destroyers. Ships themselves were chosen largely on the basis of availability, with the specific ship selection occasionally influenced by the logistics of moving Organizational Development Research Program Staff from one ship to another. As may be imagined, weather was also an occasional element in determining whether the necessary connections between two selected ships could be made.

For at least two reasons, an effort was made to maximize in the sample as many ships as possible currently deployed away from their home ports. First, larger proportions of the billets are in fact filled on deployed ships than on ships in port. Second, personnel aboard deployed ships are more likely to have had a period of exposure to the organizational variables being measured. For these reasons, more than half of

^{*}A detailed description of the sampling techniques as well as a description of the fit of the samples to their respective populations is presented in an accompaning technical report: A Methodology for the Studies of the Impact of Organizational Values, Preferences, and Practices on the All-Volunteer Navy (Michaelsen 1973).

the ships sampled were deployed at the time of the administration of the survey.

Shore stations were included from eight shore station commands

(Atlantic Fleet, Pacific Fleet, Training, Materiel, Personnel, Medicine and Surgery, Security, and Communications) and from the CNO staff.

Individuals in the sample were chosen in proportion to the number of personnel assigned to each command. Specific shore stations were randomly selected from those available in four geographical areas--East Coast, Memphis-Pensacola, San Diego, and Hawaii.

Personnel actually surveyed aboard a particular site were members of intact organizational subunits, consisting of work groups related to one another through supervisors who are, at the same time, a superior of the group they supervise and a subordinate in the group immediately above. In this fashion, one may conceive of the organization as a structure of such overlapping groups, a pyramid of interlaced pyramids. For purposes of identifying and selecting intact units for the study's analytic aims, the sampling basis was designated as a "module," by which is meant a "pyramid" of groups three echelons tall. Thus, members from four adjacent levels were included, with the module head defined as the person at the apex of that particular three-tier pyramid. Yet another criterion for the selection of a module was that the person at the apex (the module head) had been at his current assignment for at least three months.

A list of all personnel at a site who met the criteria for module head was obtained from manpower authorization documents and from organizational charts, and from these rosters an appropriate number of

module heads were randomly selected. If a particular module did not provide a large enough sample of personnel required for the particular site, another module head was selected by the same method. Thus, the sample from a site consisted of one or more modules.

This sampling procedure resulted in data collection from 38 different Navy sites and a total sample size of 2522 Navy personnel.

For purposes of the analyses to be presented within this report that subset representing commissioned officers only was extracted from the larger sample.* Table 1 presents a frequency count by rank of 298 officers present in the resulting subsample.

The statistical method to be employed consists of one-way analysis of variance, with significance estimated by means of the customary F-ratio.

In the following section, in which officer values and preferences are examined, findings will be presented verbally. Subsequent sections which discuss comparisons between those preferences and actual experiences will rely more frequently upon tabulation and graphic displays. In either instance, reference may be made to Appendix A, which presents the data more completely.

 $^{^\}star$ Warrant officers were excluded from the analyses to be reported.

Table 1
FREQUENCY OF COMMISSIONED OFFICERS BY RANK,
I.S.R. SAMPLE

Admiral	1
Captain	17
Commander	50
Lieutenant Commander	74
Lieutenant	81
Lieutenant Junior Grade	44
Ensign	31

An Analysis of Officer Preferences

Findings by Region and Community of Origin

For Navymen as a whole, few preferences showed statistically significant differences among categories of respondents grouped by region or by community of origin. For officers, fewer still occur. Only one comparison (five per cent) out of 26 for each background variable attains significance at the five per cent level of confidence. Nor are comparisons which were statistically significant for Navymen as a whole (and are not for officers) even directionally appropriate. We therefore feel justified in dismissing region and community of origin from further consideration.

Findings by Age

As among Navymen as a whole, age appears for officers to be a quite potent differentiator of organizational preferences. Ten of the 26 comparisons (39 per cent) attain statistical significance. In form, they closely resemble differences occurring among enlisted Navymen:

- Importance attached to having a job which provides a great deal of free time declines with age.
- Importance attached to having a job which provides an opportunity to serve one's country rises with age.
- Importance attached to opportunity to control one's personal life declines with age.
- Importance attached to fringe benefits rises with age.
- Importance attached to not being "bossed" in one's work declines with age.
- Importance attached to pay declines with age (although it
 is lowest for the Youngest category).

On some measures, significant differences are displayed which are different in form from those which occurred in the larger, mostly enlisted, sample:

- Preference for supervisory goal emphasis and interaction facilitation rise with age until the oldest category, at which point it drops.
- Preference for supervisory work facilitation rises abruptly from the youngest to next youngest categories, then declines with age, as does importance attached to having a prestigious job.

Findings by Educational Level

Education also appears to predispose officers toward different preferences. Seven out of 26 measures (37 per cent) attain statistical significance. On some few measures, the differences appear much as they did in the analysis of predominately enlisted responses:

- Better educated officers attach less importance than do those less well educated to having a job which permits them to serve their country.
- Better educated officers are less concerned about fringe benefits than are those who are less well educated.
- Better educated officers are less concerned about avoiding bureaucratic factors in their jobs than are those who are less well educated.

On one comparison, a finding for officers is distinctly different from a finding for enlisted personnel. Whereas the latter (enlisted men) show a relatively flat curve in preference for opportunity to control

their personal lives, dropping off only in the post-graduate work category, officers show a sharply rising curve during the lower educational levels.

A small, but curvilinear and significant, difference occurs for officers on the issue of preferred job challenge. Those with only a high school education and those with post-graduate work (beyond a bachelor's degree) prefer higher levels of job challenge than do those with either some college or a bachelor's degree.

On two issues, differences occur for officers where none occurred for the predominately enlisted sample. Better educated officers, more than the less well educated, prefer jobs which provide more free time and less likelihood of being "bossed" in their work.

Organizational Practices Experienced by Officers

As in the case of preferences, region and community of origin make no appreciable difference in the practices encountered and perceived by Navy officers. Our attention turns, therefore, first to age and then to education as potential moderators of experienced conditions.

Those who have read the earlier diagnostic report (Bowers & Franklin, 1973) will recall that the standard indices from the <u>Survey of Organizations</u> (i.e., those measures for which national civilian normative data exist) fall within several categories:

Organizational Climate - a set of environmental social conditions, representing behavior, procedures, decisions, objectives and the like, created by groups and constraining any particular focal group's functioning.

Leadership Behaviors - behavior by supervisors and fellow members of basic work (focal) groups, on four basic dimensions (Support, Goal Emphasis, Work Facilitation, Interaction Facilitation).

Group Processes - Functional properties of the group as such, including its adaptability, ability to make sound decisions, coordinate its efforts, etc.

To these have been added in the present study a number of measures of economic and non-economic characteristics of the job, its setting, and life styles.

Table 2 and Figure 1 present data on organizational climate as viewed by officers clustered by age. The phenomenon observed in the earlier report, namely that climate improves with age for Navymen, exists, in part, for officers as well. Three of the five climate indices display curves which generally rise with age. As among enlisted men, it is motivational conditions which are seen as most steeply sloped. For officers, decision—making practices and lower-level influence are viewed as rising primarily between ages 32 and 42, with little change before or after that period.

Two measures which showed significant changes with age for enlisted men—Human Resources Primacy and Communication Flow—show only similar, but statistically non-significant changes for officers.

Table 3 and Figure 2 present, in the form of percentile scores in the <u>Survey of Organizations</u> national array, data for Navy officers, enlisted men, and employed civilian men from the national cross-section of the present larger study.

These data indicate that, on the average, enlisted Navymen report a slightly better organizational climate than do officers and that the real differences reflect age perhaps more than rank. The comparison to civilian data is interesting. This shows that, whereas employed civilians report only a slight rise with age and figures which hover close to the normative mid-point (the 50 percentile--a not too surprising finding,

Table 2

SIGNIFICANCE OF DIFFERENCES BETWEEN AGE CATEGORIES IN PERCEPTIONS OF ORGANIZATIONAL CLIMATE BY NAVY OFFICERS

(N = 298)

Measure	Significance of Difference between Age Categories					
riedsure	F	df	p <			
Human Resources Primacy	1.22	3/294				
Communication Flow	1.47	3/293	-			
Motivational Conditions	7.68	3/293	.0001			
Decision-Making Practices	5.43	3/294	.002			
Lower-Level Influence	3.11	3/292	.03			

Figure 1
CLIMATE INDICES FOR NAVY OFFICERS BY AGE

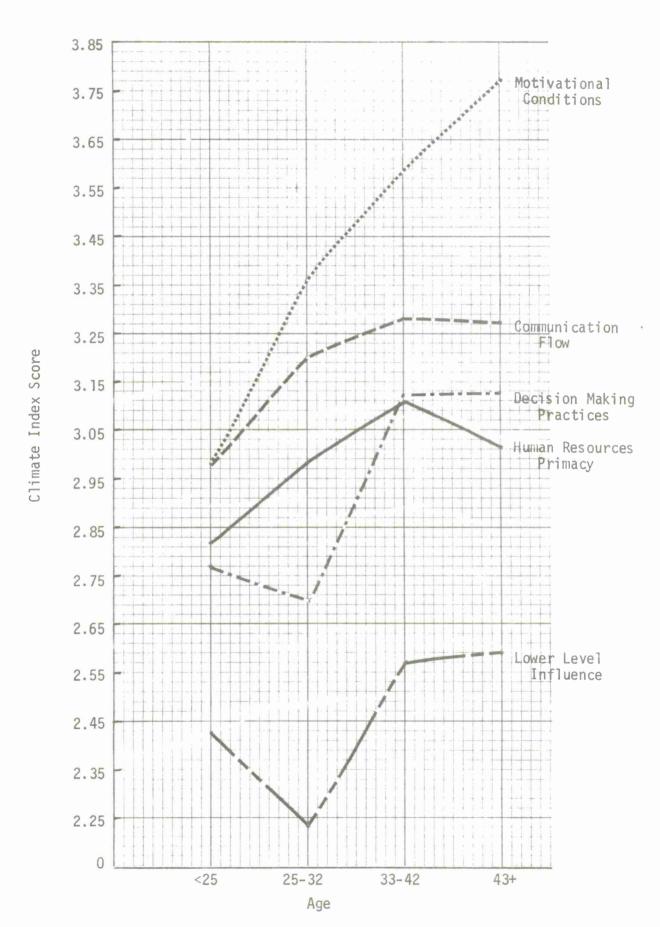


Table 3

MEAN PERCENTILE SCORES*

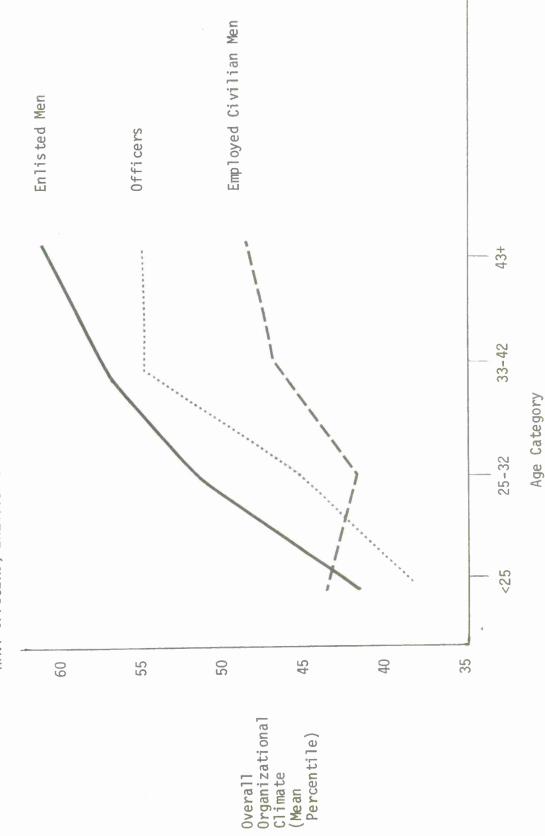
ON ORGANIZATIONAL CLIMATE MEASURES BY AGE

Employed Civ. Men (N = 520)		44	43	46	48
	Level Infl.	33	52	99	69
	Dec-Mk. Prac.	49	57	65	71
Enlisted Men (N = 1905)	Mot. Conds.	28	46	53	09
En]	Comm.	51	52	28	62
	Human Res. Primacy	37	44	48	55
	Mean	41	51	26	63
	Mean	38	45	22	55
	Lower Level Infl.	37	34	21	52
icers 98)	Dec-Mk. Prac.	51	44	64	64
Navy Officers (N = 298)	Mot. Conds.	53	51	22	63
	Comm. Flow	39	56	58	28
	Human Res. Primacy	34	39	43	40
	Age Category	< 25	25-32	33-42	43 +

 \star Comparison is made throughout the Table to the overall combined S.0.0. norms.

Figure 2





since the norms are civilian-derived), the Navy curves for both officers and enlisted men start lower and rise far higher.

Apparently gray hair counts for much more in the Navy than in civilian organizations. While the comparison thus favors the Navy in the older age brackets, it should be noted that this counts for little if most leave the Navy because of the <u>unfavorable</u> comparison in the young age bracket (first-termers).

Turning to leadership practices and processes within the basic work group, Table 4 shows percentile scores and significance tests for officers on the eight actual leadership behavior indices, plus the group process index. Figure 3 displays in graphic form those three measures for which significant or nearly significant results are obtained.

These data indicate that within-group factors (leadership and group processes) are for officers a reasonably satisfactory matter, falling at the normative mid-point or better. Even for younger officers, the situation contrasts quite favorably with that experienced by enlisted men of the same age, as the figures in Table 5 indicate.

Table 6 presents the overall satisfaction index, in percentile score form and similarly broken by age. Unlike leadership and group processes, satisfaction shows effects similar to those visible in relation to organizational climate. Young officers, like young enlisted men, are clearly generally unhappy.

Significance tests for actual and preferred job and life style factors are presented in Table 7. It can readily be seen that statistically significant differences occur among age categories for the majority (69 per cent) of actual measures.

Table 4

LEADERSHIP PRACTICES AND GROUP PROCESSES
EXPERIENCED BY NAVY OFFICERS BY AGE

(N=298)

Measure	F*	p	Mean Percentile Score
Supervisory Support	2.18	-	51
Supervisory Goal Emphasis	.41	_	44
Supervisory Work Facilitation	.64	-	53
Supervisory Interaction Facilitation	3.46	.02	54
Peer Support	.74	-	60
Peer Goal Emphasis	1.96	-	50
Peer Work Facilitation	2.52	.06	56
Peer Interaction Facilitation	2.57	.06	56
Group Processes	.51	-	61
·			

^{*}With each comparison, four age categories and the indicated N result in $df = \frac{3}{294}$.

Figure 3
MEAN PERCENTILE SCORES ON THREE LEADERSHIP MEASURES
FOR AGE CATEGORY

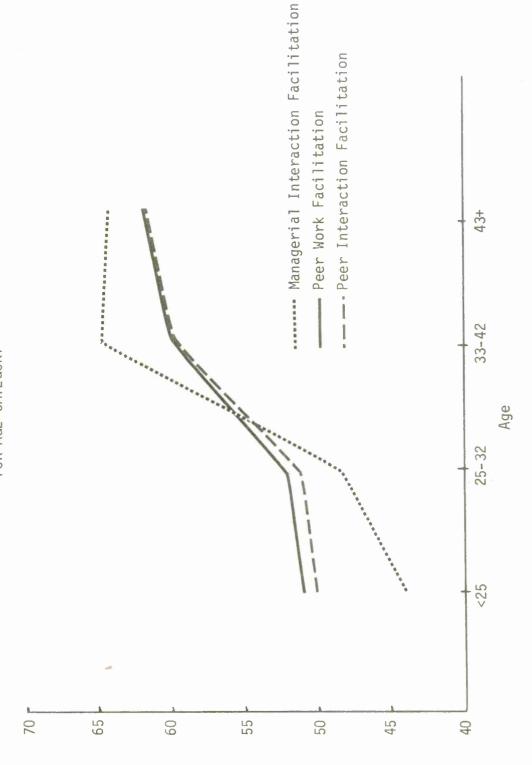


Table 5

MEAN PERCENTILE LEADERSHIP SCORES
FOR NAVY OFFICERS AND ENLISTED MEN

Category					
Officers		Enlisted Me			
<25	Total	<25	Total		
42	51	35	39		
42	44	33	35		
40	53	38	50		
44	54	39	42		
46	60	36	38		
47	50	27	30		
52	56	37	40		
50	56	34	37		
	<25 42 42 40 44 46 47 52	Officers <25 Total 42 51 42 44 40 53 44 54 46 60 47 50 52 56	Officers Enlis <25		

Table 6

SATISFACTION PERCENTILE SCORES OF NAVY OFFICERS, BY AGE

Perce	entile Scores,	by Age Cate	gory			
<25	25-32	33-42	43+	F	df	р
30	39	45	42	2.67	3/294	.0

Table 7

SIGNIFICANCE OF DIFFERENCES BETWEEN AGE CATEGORIES
IN PERCEPTION OF ACTUAL AND PREFERRED JOB LIFE STYLE FACTORS
BY NAVY OFFICERS

(N = 298)

•	Significance of Difference between Education Categories						
Measure		Actual			referre	i	
	F	df	p<	F	df	p<	
Job Challenge	2.11	3/292		1.86	3/292		
No One to Boss Me	3.13	3/292	.03	2.51	3/292		
Steady, No Layoffs	.49	3/291		1 12	3/292		
Clean Job	7.70	3/292	.0001	1.88	3/292		
Lots of Free Time	3.22	3/292	.02	14.25	3/292	.0001	
Good Pay	1.55	3/292		2.58	3/292	.05	
Prestigious Job	3.46	3/290	.02	4.07	3/291	.008	
Friendly People	6.43	3/292	.0003	.42	3/292		
Stay in One Place	10.33	3/291	.0001	1.25	3/292		
Serve My Country	5.76	3/292	.001	14.05	3/291	.0001	
Make World Better	7.50	3/291	.0001	.91	3/291		
Fringe Benefits	.71	3/292		5.92	3/292	.0006	
Control Personal Life	6.61	3/292	.0002	5.86	3/289	.0007	
No Endless Referrals	9.56	3/292	.0001	.69	3/291		
No Red Tape	2.18	3/292	ele ele	1.62	3/292		
No Unexplainable Rules	7.57	3/292	.0001	1.06	3/292		

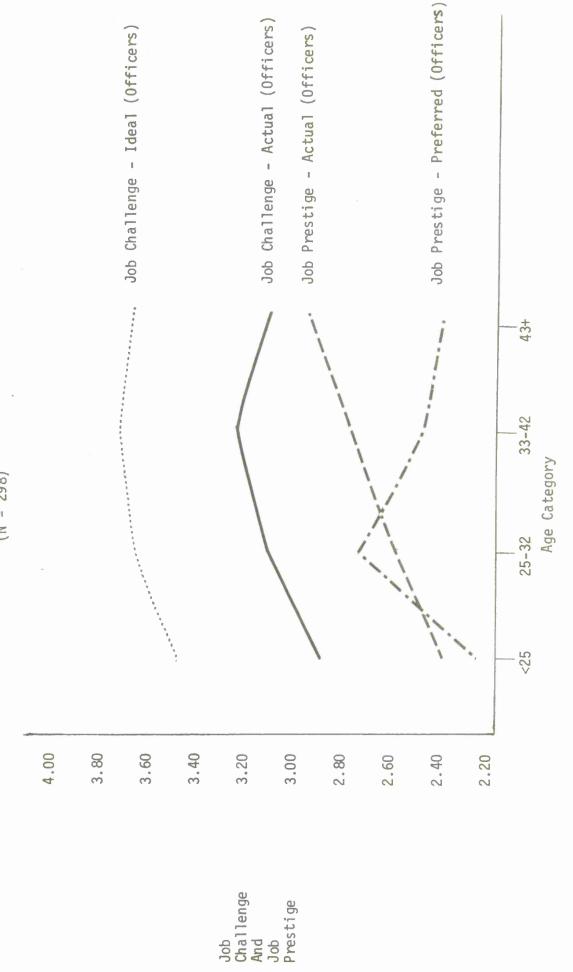
Although reference may be made to the appropriate appendix for basic statistics concerning these measures, they will be presented for discussion purposes in graphic form. Figure 4, for example, examines two closely intertwined issues, job challenge and job prestige. Whereas actual job prestige rises constantly with age, job challenge does not. Preferred levels of job challenge constantly outrun levels actually experienced, whereas preferred levels of job prestige are either approximately right (younger age categories) or lower than what is actually perceived to exist. With greater maturity, in other words, less importance comes to be attached to having a job which impresses one's friends.

Several non-economic job factors become significantly more positive with age. Thus, jobs become cleaner (Figure 5), although the importance attached to that characteristic drops with age. People with whom one works are friendlier (Figure 6), although the importance of that factor remains relatively constant across age categories. Experienced bureaucracy declines with age (shown as a rise in measures "No Endless Referrals" and "No Unexplainable Rules" in Figures 7 and 8), although the aversion to bureaucracy remains high in all age categories.

Opportunity to control one's personal life similarly shows improvement with age. In this instance, however, comparison is made to the actual and preferred levels expressed by employed males in the civilian cross-section (Figure 9). Although the importance attached to this characteristic by Navy officers drops with age, the rise in the actual curve puts the degree experienced even marginally close only in the oldest age category. For the youngest age group, the discrepancy is very large indeed. The entire configuration, furthermore, is strikingly

Figure 4

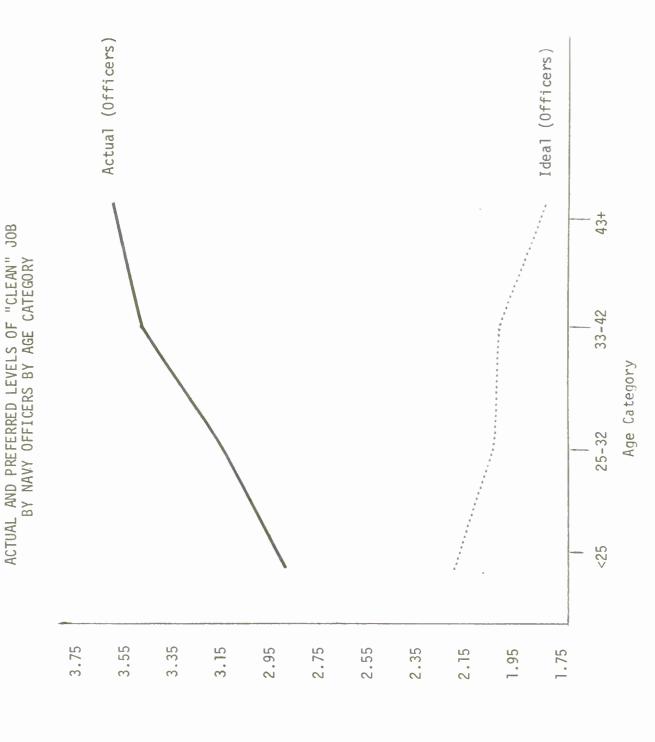
COMPARISON OF ACTUAL AND PREFERRED JOB CHALLENGE AND JOB PRESTIGE BY NAVY OFFICERS, BY AGE CATEGORY (N = 298)



And

23

Figure 5 CTUAL AND PREFERRED LEVELS OF "CLEAN"



Clean Job

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB FACTOR "FRIENDLY PEOPLE" BY NAVY OFFICERS, BY AGE CATEGORY (N = 298)

Figure 6

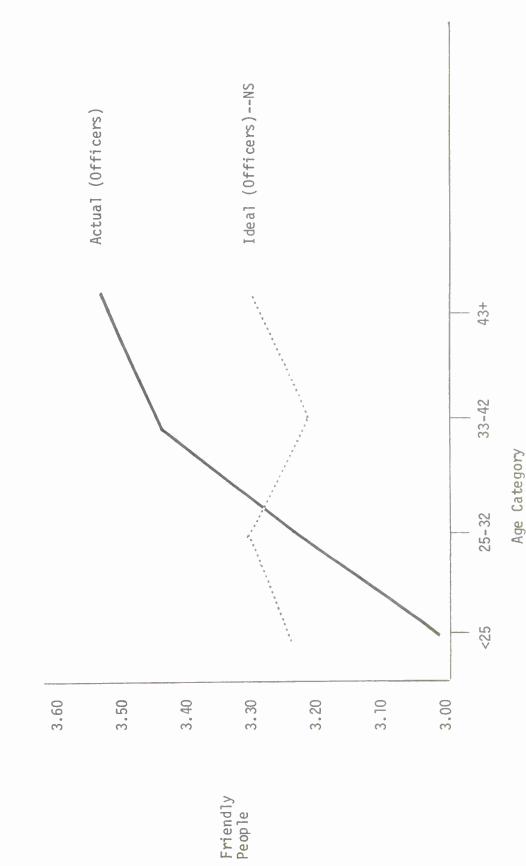


Figure 7

COMPARISON OF ACTUAL AND PREFFERED LEVELS OF JOB FACTOR "NO ENDLESS REFERRALS" BY NAVY OFFICERS BY AGE CATEGORY (N = 298)

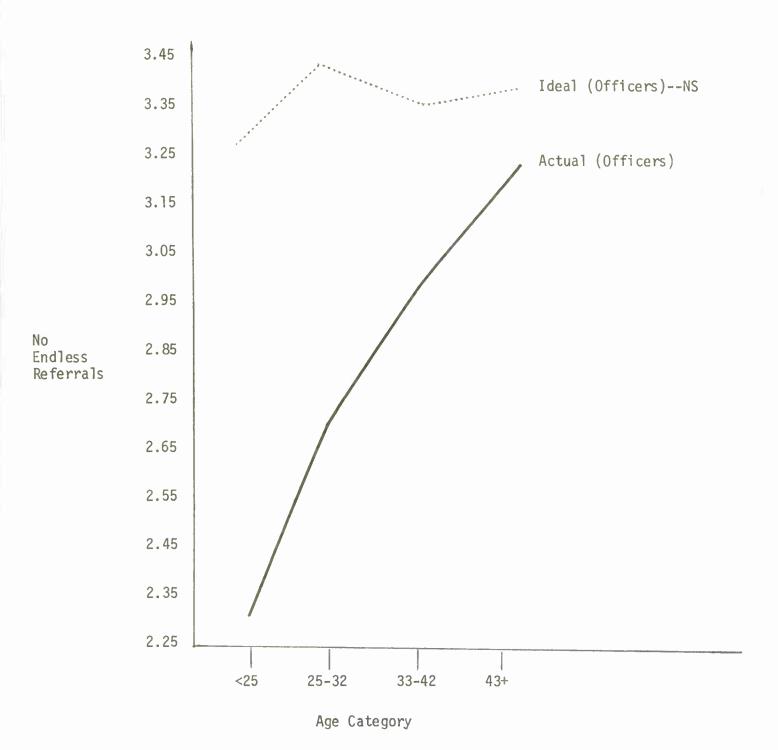


Figure 8

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB FACTOR
"NO UNEXPLAINABLE RULES"
BY NAVY OFFICERS, BY AGE CATEGORY
(N = 298)

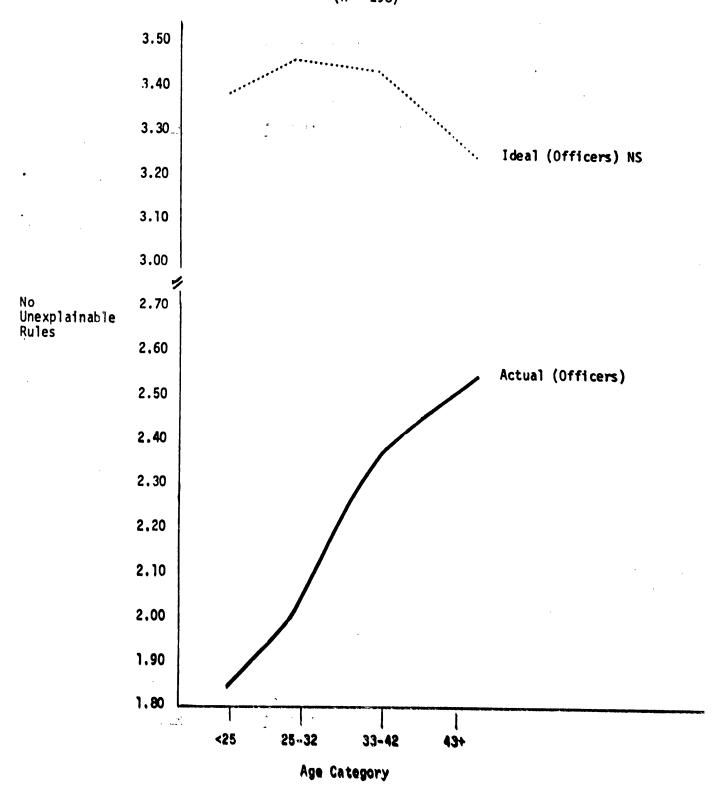
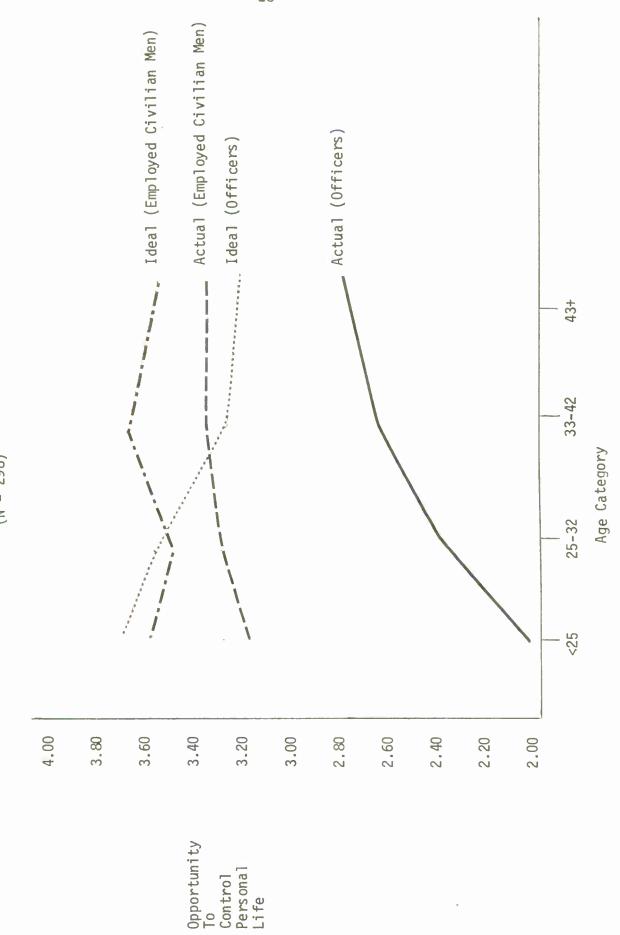


Figure 9

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF OPPORTUNITY TO CONTROL ONE'S PERSONAL LIFE, BY NAVY OFFICERS AND EMPLOYEE CIVILIAN MEN, BY AGE CATRGORY (N = 298)



Control

different from that expressed in experiences of employed civilians (although preferred levels are more nearly identical).

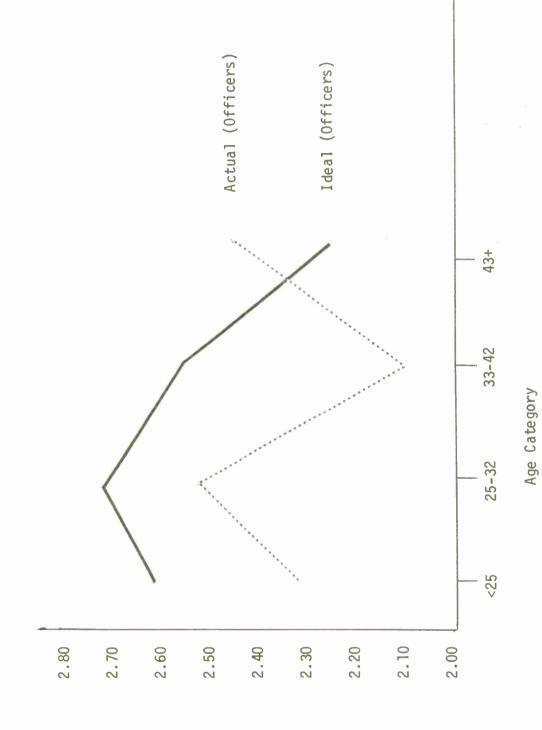
A similar, although clearly more erratic, comparison exists for the measure "No One to Boss Me" (Figure 10). The importance attached to this characteristic declines with age, but crosses the <u>actual</u> curve only for the oldest category.

A somewhat different phenomenon occurs in relation to free time (Figure 11). In this instance both actual and preferred levels decline, the latter more precipitously than the former. Clearly, however, young officers feel a distinct lack of free time—a lack which, in absolute terms, is likely to become greater, not smaller, with age.

Three measures, here termed "life style" factors because they refer to more general considerations about what is important in a job as it impinges upon living one's life, also show increases with age in levels experienced. Opportunity to stay in one place (Figure 12) quite naturally rises with age, although the desire to do so is relatively constant and always higher than the possibility of doing so. Opportunity to serve one's country is viewed as increasing with age, as does the desire to do so (Figure 13). Opportunity to make the world a better place rises dramatically with age, whereas the importance attached thereto remains relatively constant and higher (Figure 14).

Two curves—those concerning pay and fringe benefits—are presented here despite the fact that no significant differences occur for levels of these factors actually experienced (see Figures 15 and 16). The actual curves indicate that most officers, regardless of age, feel it to be true that pay and fringe benefits are good. Pay is more <u>important</u> among those

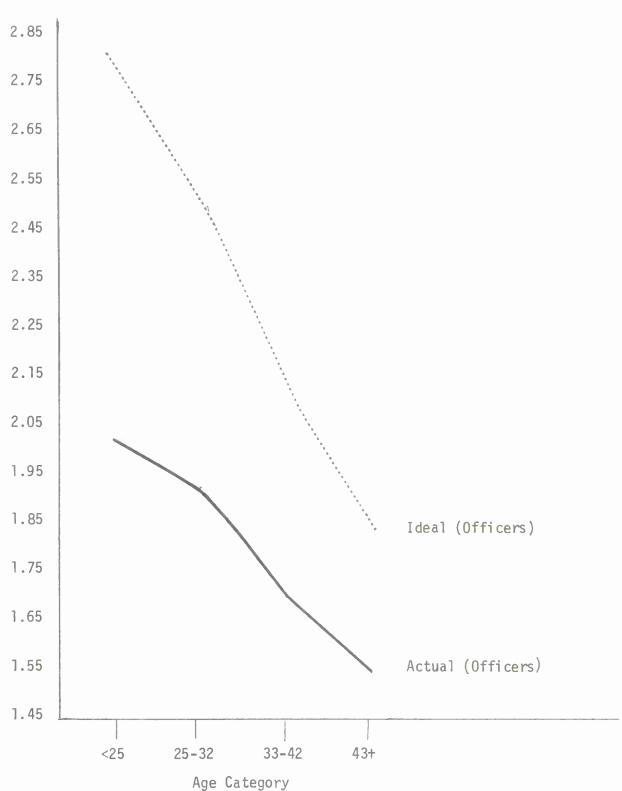
Figure 10 COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB FACTOR "NO ONE TO BOSS ME", BY NACY OFFICERS BY AGE CATEGORY (N = 298)



No One To Boss

Figure 11

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF FREE TIME
BY NAVY OFFICERS BY AGE CATEGORY
(N = 298)

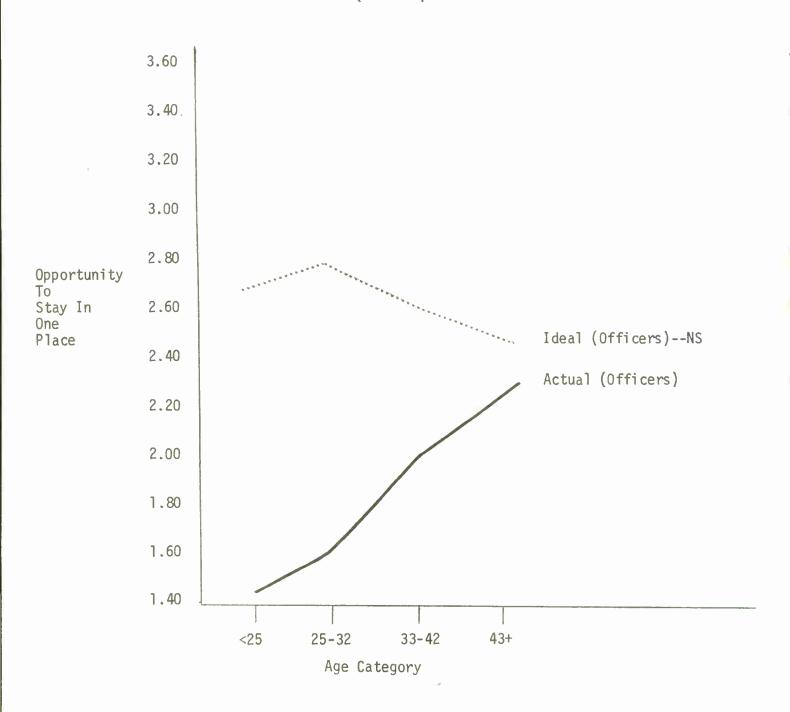


Lots Of

Free Time

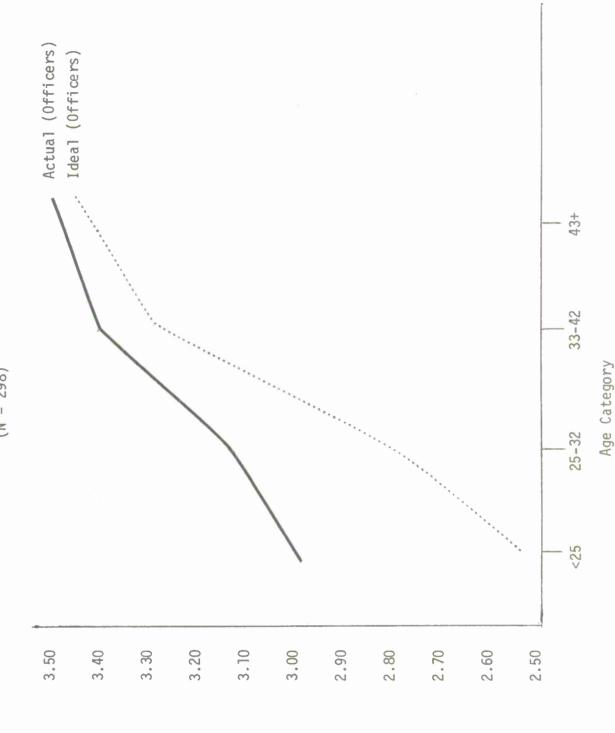
Figure 12

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF OPPORTUNITY TO STAY IN ONE PLACE BY NAVY OFFICERS BY AGE CATEGORY (N = 298)



COMPARISON OF ACTUAL AND PREFERRED LEVELS OF OPPORTUNITY TO SERVE ONE'S COUNTRY, BY NAVY OFFICERS, BY AGE CATEGORY (N = 298)

Figure 13



Opportunity To Serve Country

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF OPPORTUNITY
TO MAKE THE WORLD A BETTER PLACE

Figure 14

BY NAVY OFFICERS BY AGE CATEGORY
(N = 298)

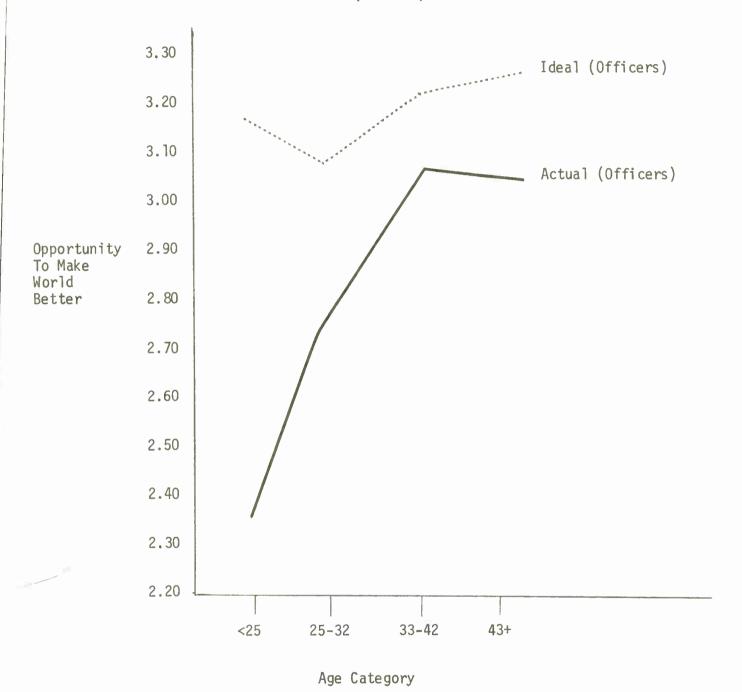
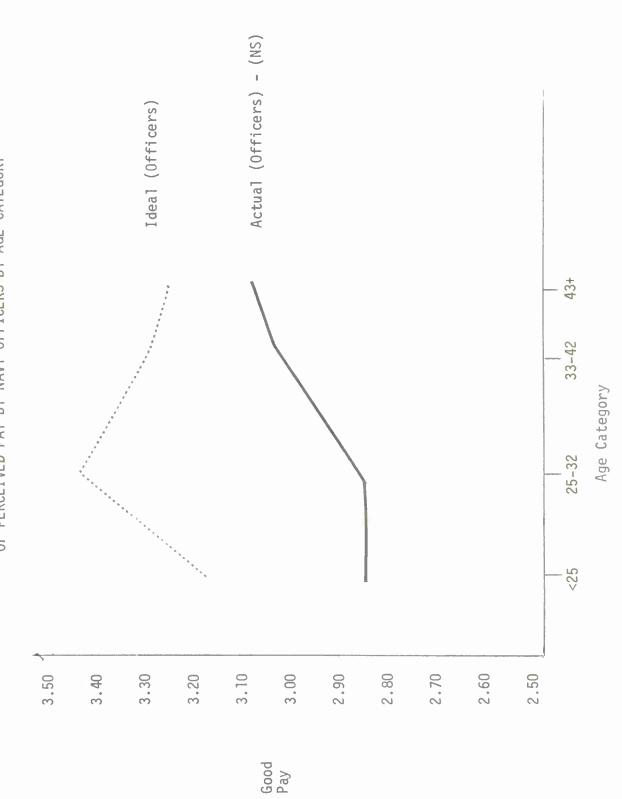
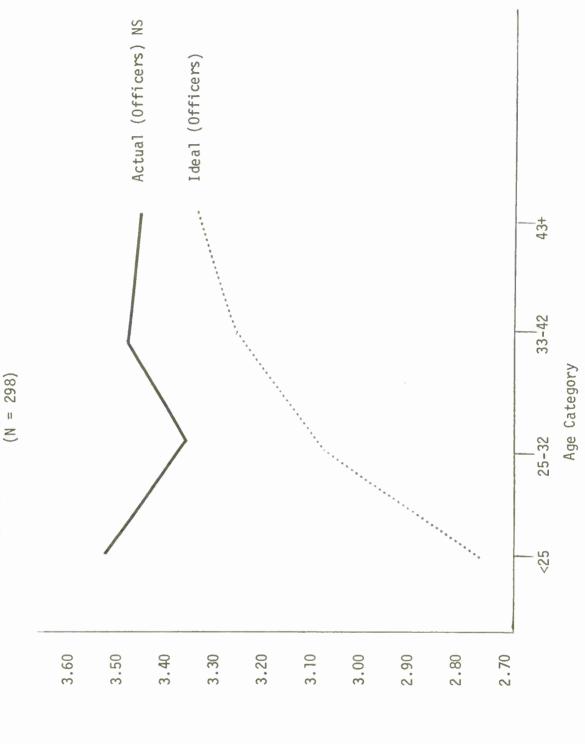


Figure 15
COMPARISON OF ACTUAL AND PREFERRED LEVELS
OF PERCEIVED PAY BY NAVY OFFICERS BY AGE CATEGORY



COMPARISON OF ACTUAL AND PREFERRED LEVELS OF PERCEIVED FRINGE BENEFITS BY AGE CATEGORY (N = 298) Figure 16



Good Fringe Benefits in the 25-32 year old category, somewhat less important for those under 25. Fringe benefits, however, are decidedly less important to those in the youngest age categories, and much more important to those in the oldest.

Turning to comparisons by educational level, Table 8 presents significance tests for all variables representing actually experienced organizational practices. These data indicate that, among the standard <u>Survey of Organizations</u> indices, only one exhibits statistically significant differences. This one measure, the Human Resources Primacy index from the organizational climate set, may have importance beyond its proportion, however. Figure 17 shows that this condition is viewed as dropping precipitously as one moves from lower to higher educational levels. (Comparisons to the national norms, in fact, indicate that it moves from near the mid-point of that array—the 49 percentile—to the 36 percentile for those with post-graduate work!)

It is among the various job-factor measures, perhaps, that more light is shed upon the reasons for this perception by well educated persons, Figures 18, 19, and 20 present perceptions of, and preferences concerning, bureaucracy in the work setting. (A high score indicates an <u>absence</u> of bureaucracy in the form of endless referrals, red tape, and unexplained rules.) Despite more nearly common levels of aversion to bureaucracy, better educated officers (those with a college degree and those with post-graduate work) report more frequent endless referrals, more occurrence of red tape, and a greater incidence of rules or regulations which no one seems able to explain than is reported by less well educated persons. Perhaps the former are more sensitive to such issues, or perhaps more complex assignments bring them more often into contact (and conflict) with the bureaucracy. The fact remains that they feel more hamstrung in their work than do the less well educated.

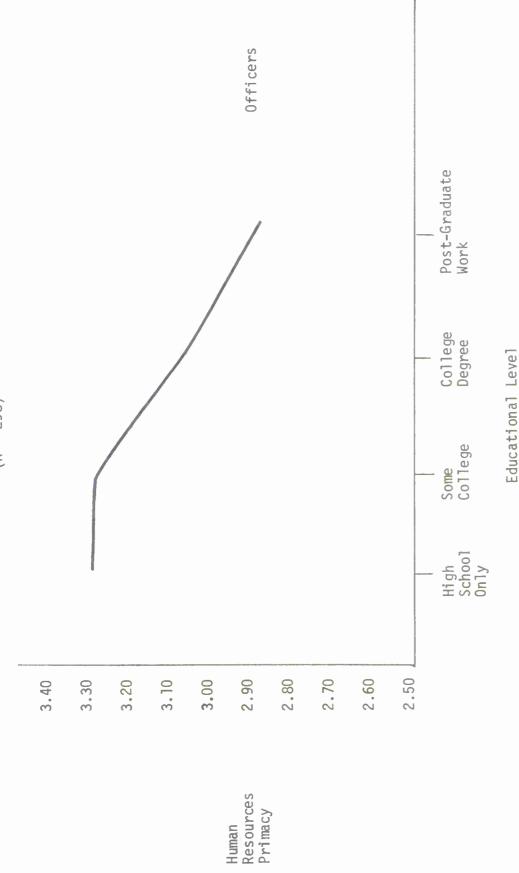
Table 8

SIGNIFICANCE OF DIFFERENCES BETWEEN EDUCATION CATEGORIES
IN PERCEPTION OF ACTUAL AND PREFERRED JOB LIFE STYLE FACTORS
BY NAVY OFFICERS

(N = 298)

				of Differe		
Measure		Actual			Preferre	d
	F	df	p<	F	df	p<
Job Challenge	2.74	3/294	.04	2.40	3/294	
No One to Boss Me	1.24	3/294		4.10	3/294	.007
Steady, No Layoffs	. 44	3/293		1.50	3/294	
Clean Job	.51	3/294		1.28	3/294	
Lots of Free Time	4.03	3/294	.008	5.71	3/294	.001
Good Pay	13.61	3/294	.0001	.64	3/294	
Prestigious Job	2.07	3/292		.57	3/293	
Friendly People	4.86	3/294	.003	. 74	3/294	
Stay in One Place	5.29	3/293	.002	.59	3/294	
Serve My Country	.83	3/294		2.54	3/293	
Make World Better	1.94	3/293		.76	3/294	
Fringe Benefits	5.22	3/294	.002	4.44	3/294	.005
Control Personal Life	4.44	3/294	.005	4.01	3/291	.008
No Endless Referrals	3.74	3/294	.01	2.90	3/293	.04
No Red Tape	5.77	3/294	.001	.83	3/294	
No Unexplainable Rules	3.47	3/294	.02	1.34	3/294	

PERCEPTIONS OF HUMAN RESOURCES PRIMACY BY NAVY OFFICERS BY EDUCATIONAL LEVEL (N = 298) FIGURE 17



Human

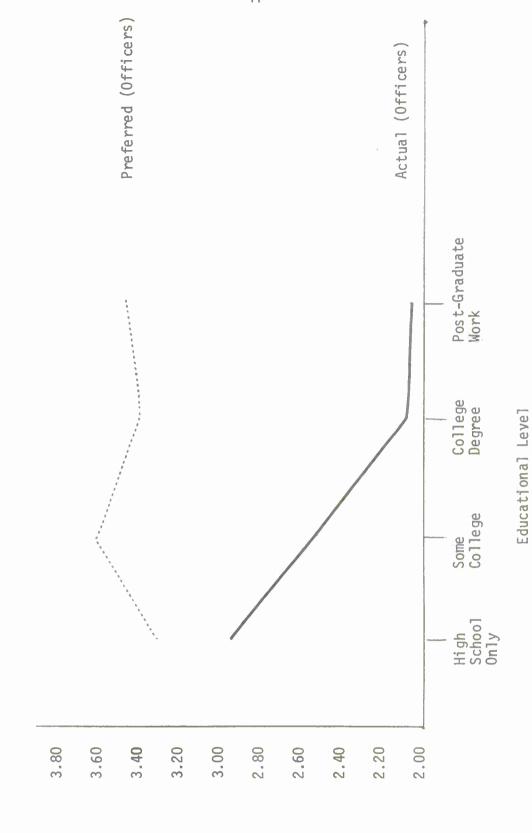
Preferred (Officers) Actual (Officers) Post-Graduate Work COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB FACTOR "NO ENDLESS REFERRALS"

BY NAVY OFFICERS BY EDUCATIONAL LEVEL

(N = 298) College Degree Figure 18 Some College High School Only 2.70 3.70 3.30 3.20 3.10 3.00 2.90 2.80 3.60 3.40 3.50

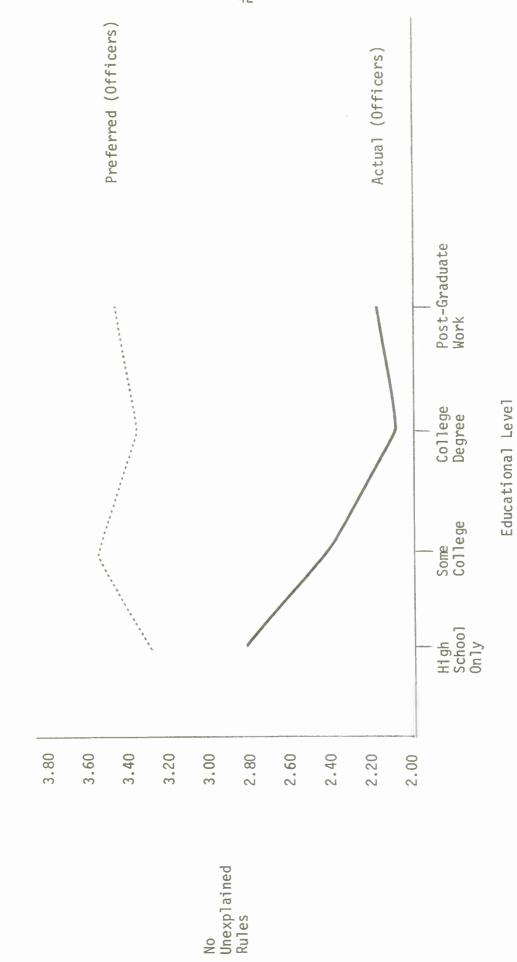
No Endless Referrals Educational Level

Figure 19
COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB FACTOR
"NO RED TAPE"
BY NAVY OFFICERS BY EDUCATIONAL LEVEL
(N = 298)



No Red Tape

Figure 20
COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB FACTOR
"NO UNEXPLAINED RULES"
BY NAVY OFFICERS BY EDUCATIONAL LEVEL
(N = 298)



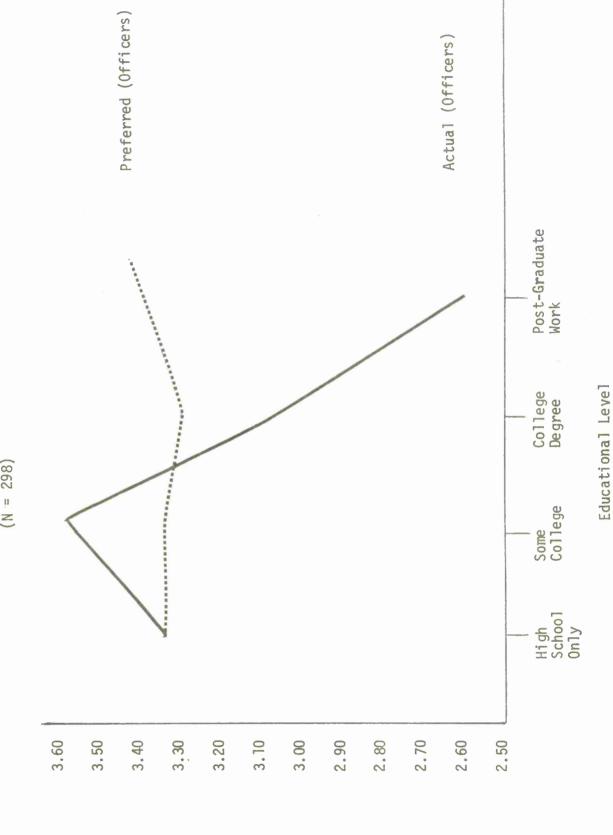
Perceptions of pay and fringe benefits (Figures 21 and 22) are interesting as well. Thus, the better educated officers view fringe benefits in less positive terms than do the less well educated, but attach even less importance to them. Throughout, fringe benefits are seen as exceeding in quality their importance in personal priority systems. Pay, however, is another matter; it is generally positively perceived by the less well educated, moderately negatively seen by those with a college degree, and viewed as comparatively poor by those with post-graduate work.

Ability to remain in one place appears to be another source of disgruntlement on the part of the better educated (see Figure 23). While the preferred level rises slightly with education, the actual opportunity to do so drops rather drastically.

Working with friendly people (Figure 24) is an adequately met need for better educated officers, however, and their jobs are viewed as somewhat more challenging (although, like those at less educated levels, desire for challenge exceeds what is experienced). (See Figure 25).

Free time is viewed as declining - both absolutely and comparatively by the better educated (see Figure 26). From a level that perhaps exceeds preference for those with only a high school education, the free time "deficit" steadily mounts as one moves up the educational level, a deficit more attributable to rising aspirations than to declining availability.

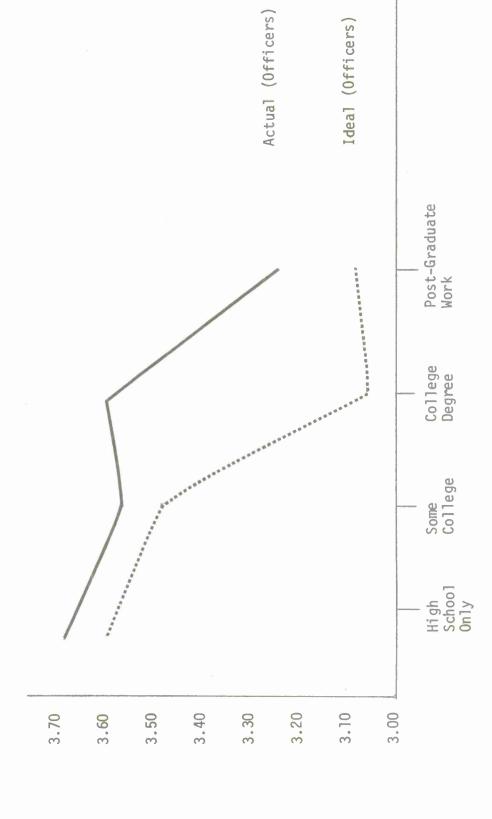
Figure 21
COMPARISON OF ACTUAL AND PREFERRED PERCEPTIONS OF GOOD PAY
BY NAVY OFFICERS BY EDUCATIONAL LEVEL
(N = 298)



Good

COMPARISON OF ACTUAL AND PREFERRED PERCEPTIONS OF FRINGE BENEFITS BY EDUCATIONAL LEVEL (N = 298)

Figure 22

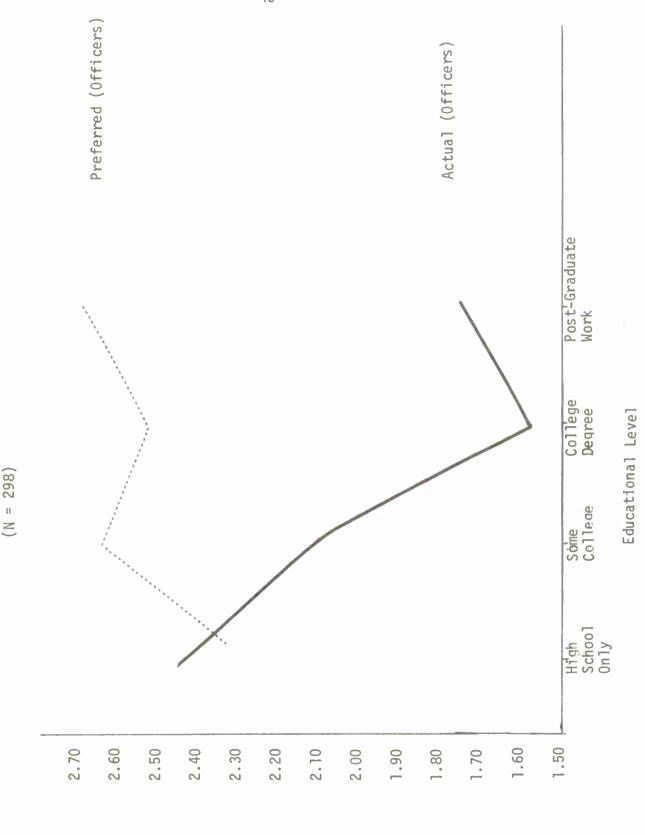


Good Fringe Benefits Educational Level

COMPARISON OF ACTUAL AND PREFERRED OPPORTUNITY TO STAY IN ONE PLACE

BY NAVY OFFICERS BY EDUCATIONAL LEVEL

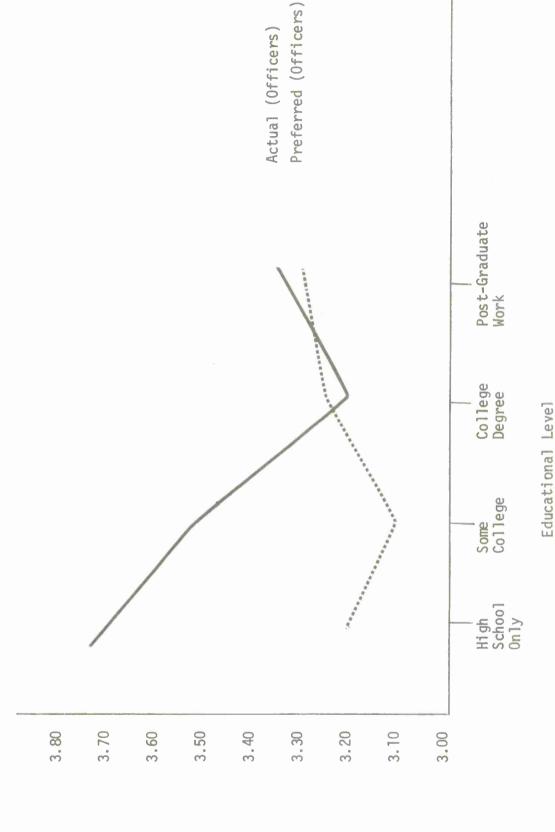
(N = 298) Figure 23



Stay In One Place

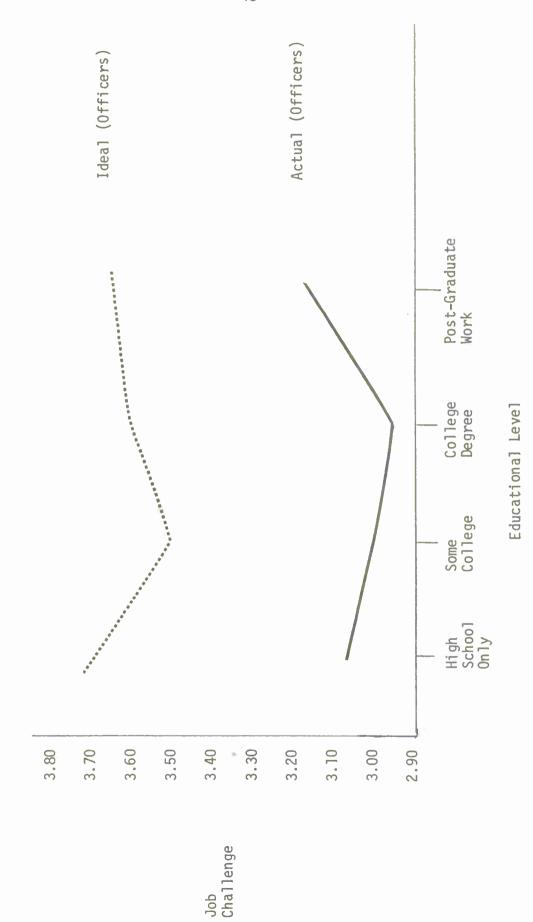
Figure 24 SON OF ACTUAL AND PREFERRED LEVELS OF THE JO





Friendly People

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF JOB CHALLENGE BY NAVY OFFICERS BY EDUCATIONAL LEVEL (N = 298) Figure 25



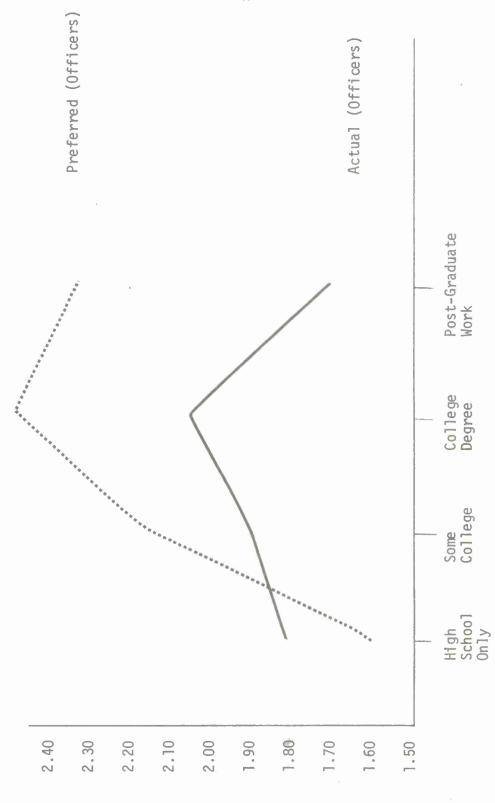
Job

COMPARISON OF ACTUAL AND PREFERRED LEVELS OF FREE TIME

BY NAVY OFFICERS BY EDUCATIONAL LEVEL

(N = 298)

Figure



Lots Of Free Time

Educational Level

Finally, the measure "Opportunity to Control One's Personal Life" deserves special scrutiny (Figure 27). This factor, which has been found elsewhere to be a prime predictor of reenlistment intention among first-term enlisted men, displays in the present instance a rather strange pattern. The importance attached to controlling one's personal life oneself rises slightly with education, a finding in no way surprising. Yet where most societies or social orders provide their technical-educational elites with more, not less, personal freedom, the reverse appears true among Navy officers! That the situation is decidedly different from aspirations and experience by comparable groups in the civilian world is indicated by curves presented for employed civilian men from the national cross-section.

Discussion and Conclusions

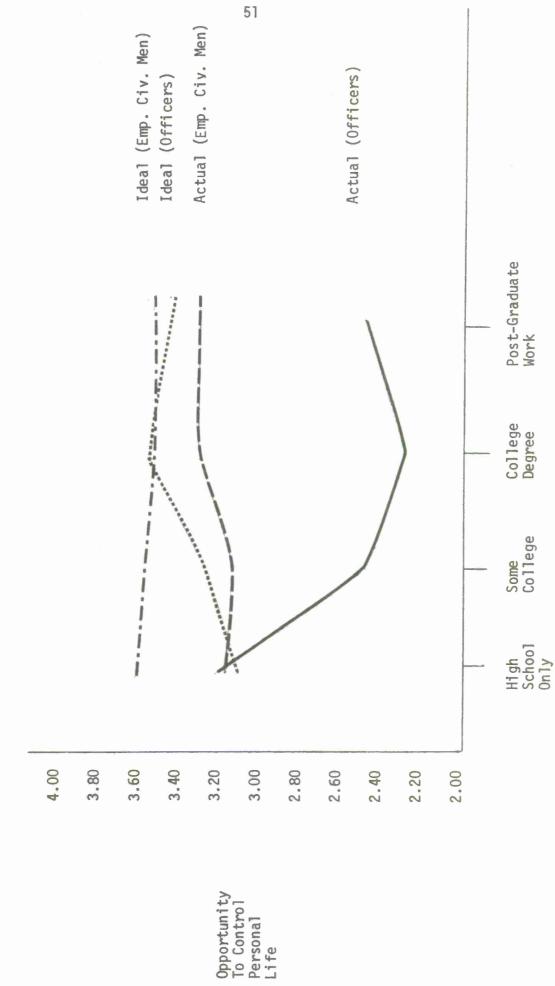
Any attempt to pull together the findings cited in the preceding pages must necessarily omit a number of subtle points, some of them perhaps ultimately of considerable importance. Keeping this in mind, a number of potentially critical and obvious points emerge and deserve integration and further discussion.

First, it is apparent from these data that age and education are, indeed, important moderating variables in connection with the experienced practices and organizational preferences of Navy officers. It seems equally apparent that those problems whose existence is suggested by the data do not stem from intra-group interpersonal processes (supervisory leadership, peer relations, group processes), but from organizational climate and from the complex configuration of characteristics of officer positions and the setting in which they exist.

COMPARISON OF ACTUAL AND PREFERRED OPPORTUNITY TO CONTROL ONE'S PERSONAL LIFE

BY NAVY OFFICERS AND EMPLOYED CIVILIAN MEN BY EDUCATIONAL LEVEL

(N = 298)



Educational Level

Since the reason for the present research is the renewed existence of an all-volunteer situation (i.e., the end of conscription and its derivative effects), a consideration of these findings must necessarily be cast primarily in the context of recruitment, retention, and effectiveness of those closest to the input end of the career stream, the younger officers. From this perspective, strengths are those properties whose importance is at a reasonably attainable level for the young and whose actual presence is sufficient to provide reward, encouragement, and satisfaction. Conversely, problems are defined by situations of disparity centered around age and, since educational levels are societally rising, education.

As has been said, the basic work group processes of leadership, peer relations, adaptability, and the like are, for officers, fairly positive. They form a source of strength when strength is needed. Organizational climate, however, is not a strength, but a problem, with young officers experiencing even lower levels of the variables comprising this domain than young enlisted men. Human Resources Primacy—the importance which the organization is perceived as attaching to its human resources—declines with education, with the best educated officer segment perceiving that the Navy cares very little for its personnel. It is, therefore, no surprise that satisfaction is, among young officers, quite low.

In organizational settings, expressions of dissatisfaction automatically conjure up visions of those familiar curatives, pay and benefits. The data presented in the body of the report rather clearly suggest that these play little, and only a highly selective, role. Relatively low importance is attached by the young and better educated officers to fringe benefits. While, quite naturally, felt importance grows with age,

it has little attractive power at the input end of the career stream. Pay, while it is felt to be more important than fringe benefits, is less important to the youngest officers than to any other group. When broken by educational level, however, perceptions of the adequacy of pay fall drastically with increasing education, and those with some post-graduate work feel most seriously disadvantaged. These particular findings suggest that additional serious consideration might be given to weighting education more strongly and seniority less strongly in establishing pay rates.

In a somewhat similar vein, serving one's country is apparently not a particularly impressive theme to the younger, better educated officers. Although it may rise subsequently with age, this has little relevance for manpower recruitment and retention in the years immediately ahead.

Opportunity to stay in one place is moderately important to respondents in all age and educational categories. The actual opportunity is quite low, however, for two groups: the young and the well educated. The opportunity for extensive travel would appear not to be a major attraction for persons in these categories.

Bureaucracy, in its most negative sense, poses a potential problem for retention of better educated officers. By sensitivity or by role, these officers report more frequent frustration by a combination of endless referrals, red tape, and unexplainable rules. As educational levels generally rise, this particular problem is likely to become more, not less, prevalent.

Finally, three additional problems loom as particularly troublesome.

Having free time is most important to the young and to the better educated.

Yet not only is the "deficit" largest for these groups, its availability presently <u>declines</u> even further with age. Not being "bossed" is similarly most important to the young, yet only among the oldest officers does experience meet aspiration.

Opportunity to control one's personal life emerges as the last--but perhaps most important of these three critical "autonomy" issues. Being able to control one's own personal life is most important, and least permitted, to young officers. While the opportunity to do so rises with age, this provides little attraction to the young officer whose felt need is greatest. Opportunity, on the other hand, declines for some unknown reason with education, producing the perplexing anomaly of the most capable being permitted the least freedom in their personal lives.

To summarize, young Navy officers report perceptions of a relatively unyielding bureaucracy which allows too little personal autonomy.

Despite the basically positive, constructive relationships which exist with supervisors and peers, the climate is therefore seen in relatively negative terms. It is no small surprise that, in these circumstances, young officers seem by and large quite dissatisfied.

APPENDIX A

Table A-1
ACTUAL AND PREFERRED RESPONSES OF NAVY OFFICERS
STRATIFIED BY AGE

		<25		25-	32	33-	-42	4	43+			
Measures		× ×	SD		SD	H L	SD	×	SD	LL	df	p<
Managerial Support	Ad	3.74	1.07	4.52	1.01	4.20	.92	4.01	.98	2.18	3/291	NS
Managerial Goal Emph	Ad	3.77	. 55	3.77	1.00	3.89	. 55	3.72	1.04	3.39	3/287 3/285	. 02
Managerial Work Facil	A	2.99	. 69 . 69	3.09	.95	3.20	. 83	2.97	1.23	.64	3/289	NS 03
Managerial Intera Facil	A d	3.19	99.	3.38	1.07	3.73	1.09	3.70	1.22	3.46	3/290	.002
Peer Support	A	3.87	. 59	4.03	. 52	4.39	.58	3.98	.76	.74	3/290	NS
Peer Goal Emph	A	3.34	. 55	3.41	. 56	3.65	. 64	3.59	.83	1.97	3/289	NS
Peer Work Facil	A	3.06	86.	3.08	. 85	3.35	. 86	3.40	1.03	2.52	3/289	NS
Peer Intera Facil	A	3.00	.97	3.05	.93	3.32	66.	3.39	.90	2.57	3/290	NS
Hum Fac Awareness	V	4.27	69.	4.34	.53	4.32	09.	4.46	.43	.79	3/292	NS
Theory X	A	3.28	99.	3.42	. 59	3.47	.73	3.19	.64	2.17	3/292	NS
Job Challenge	A d	2.90	.67	3.10	. 29	3.18	. 53	3.08	.35	2.11	3/292	NS NS
No One to Boss Me	A	2.31	1.05	2.52	. 83	2.55	1.06	2.26	96.	3.13	3/292	.03 NS
	•											

Table A-1 (continued)

		<25		25-	32	33-	33-42	43+				
Measures	I(t	×	SD	×	SD	×	SD	×	SD	-	df	> d
Steady, No Layoffs	A 3.	3.47	.89	3.36	.91	3.49	.87	3.41	.91	. 49	3/291	NS
Clean Job	A 2.	2.88	96.	3.13	.81	3.48	. 89 89	3.58	. 79	7.70	3/292 3/292	.0001
Lots of Free Time	A 2.	2.02	.80	1.94	88.	1.72	.85	1.55	. 75	3.22	3/292 3/292	.03
Good Pay	A 2.	83	. 63	2.83	. 53	3.03	. 64	3.08	.75	1.55	3/292 3/292	NS
Prestigious Job	A 2.	2.40	. 81	2.60	.83	2.49	. 97	2.39	. 92	3.46	3/290 3/291	.002
Friendly People	A 3.	3.02	.72	3.24	.58	3.43	.71	3.53	.57	6.43	3/292 3/292	.0003
Stay in One Place	A 1.	45	.86	1.56	.78	1.97	1.02	2.32	. 83	10.33	3/291 3/292	.0001 NS
Serve My Country	A 2.	2.98	. 95	3.14	.79	3.29	.75	3.50	. 56	5.76	3/292 3/291	.0008
Make World Better	A 2.	2.36	. 85	2.72	. 85	3.06	. 83	3.03	. 69	7.50	3/291 3/292	.0001
Fringe Benefits	A 3.	52	. 79	3.36	.83	3.48	. 72	3.45	69.	.71	3/292 3/292	NS . 0006
Control Pers Life	A 2.	2.02	1.05	2.40	. 56	2.67	. 70	2.79	.62	6.61 5.86	3/292	.0002

Table A-1 (continued)

Mosco		>	¢7>	20-02	7	74-00	7,5		The state of the s			
Medsures		×	SD	×	SD	×	SD	×	SD	L	df	b<
No Endless Referrals	A	2.3]	.87	2.72	88	2.96	68	3.24	.75	9.56	3/292	.000
	Б	3.26	99.	3.43	.59	3.34	.77	3.37	.79	.69	3/291	NS
No Red Tabe	A	1.90	.76	2.06	98.	2.19	66.	2.37	.94	2.18	3/292	NS
	A	3.36	.62	3.51	. 55	3.39	.73	3.29	.65	1.62	3.292	NS
No Unexplain Rules	A	1.86	. 84	2.02	68.	2.40	.95	2.55	69.	7.57	3/292	.000
	D	3.38	.76	3.46	. 55	3.45	.67	3.26	09.	1.06	3/292	NS

A = ActualP = Preferred

ACTUAL AND PREFERRED RESPONSES OF NAVY OFFICERS STRATIFIED BY EDUCATION

Table A-2

Measures		High Sch or less	School ss	Som Col	Some College	Completed College	eted	Some Grac School	Grad 1			
		×	SD	×	SD	×	SD	×	SD	ш	df	p<
Managerial Support	A	4.60	. 51	4.33	.58	4.05	.92	3.94	1.09	1.33	3/293	NS NS
Managerial Goal Emph	A	3.89	1.16	3.79	1.15	3.91	. 83	3.72	1.04	.79	3/289	NS NS
Managerial Work Facil	A	3.05	1.29	3.16	1.09	3.14	. 59	3.07	1.05	.16	3/291	NS NS
Managerial Intera Facil	AA	3.70	1.25	3.60	1.18	3.42	1.03	3.55	1.14	.48	3/292	NS NS
Peer Support	Ad	4.22	.81	3.78	.59	4.05	.61	4.00	.56	1.30	3/292	NS NS
Peer Goal Emphasis	A	3.83	. 56	3.31	98.	3.42	. 51	3.57	. 65	1.79	3/291	NS NS
Peer Work Facil	AA	3.36	.90	3.38	.75	3.11		3.26	. 81	.96	3/291	NS
Peer Intera Facil	Ad	3.67	1.07	3.14	1.07	3.09	.90	3.22	.75	1.72	3/292	NS NS
Human Fac Awareness	A	4.23	.72	4.37	. 44	4.34	.58	4.33	. 56	. 15	3/294	NS
Theory X	V	3.40	.84	3.48	. 84	3.42	.61	3.36	99.	. 32	3/294	NS
Job Challenge	A	3.08	. 32	3.05	3.58	2.99	.60	3.19	.31	2.74	3/294	.05 NS

Table A-2 (continued)

Measures		High Sc or less	High School or less	Som Co1	Some College	Completed College	ted	Some Grad School	arad			
		×	SD	×	SD	×	SD	×	SD	ഥ	df	>d
No One to Boss Me	A	2.73	1.03	2.14	1.06	2.41	.96	2.66	1.02	1.24	3/294	NS 000.
Steady, No Layoffs	A	3.53	. 82	3.24	. 78	3.43	.83	3.44	87.8	.44	3/293	NS
Clean Job	A d	3.53	.80	3.24	1.04	3.24	.72	3.26	.81	.51	3/294	NS NS
Lots of Free Time	A	1.80	.94	1.86	96.	2.03	.81	1.66	.80	4.03	3/294	.003
Good Pay	A	3.33	. 62	3.57	.80	3.10	.61	2.63	. 55	13.61	3/294	.0001 NS
Prestigious Job	A	3.00	.85	2.71	96.	2.54	\$\frac{\ppi}{\ppi} \ppi \ppi \ppi \ppi \ppi \ppi \ppi	2.76	06.	2.07	3/292	NS NS
Friendly People	A	3.73	. 77	3.52	.51	3.19	.60	3.32	. 58	4.86	3/294	.003 NS
Stay in One Place	A	2.47	1.13	2.62	1.18	1.59	8.00	1.77	.90	5.29	3/293	.002 NS
Serve My Country	A	3.53	. 82	3.38	. 86	3.23	. 88	3.25	.91	.83	3/294	NS WS
Make World Better	A	2.73	88.	2.95	. 83 83	2.67	. 74	2.92	. 23	1.94	3/293	NS WS
Fringe Benefits	Ad	3.67	.63	3.57	.75	3.59	. 72	3.26	. 71	5.22	3/294	.002

Table A-2 (continued)

ייהמטעורכט		or less	or less	Col	College	College	ge	School	ם מח			
		×	SD	×	SD	×	SD	×	SD	LL	df	p×
Control Personal Life	A	3.20	.68	2.52	.93	2.32	.94	2.54	.94	4.44	3/294	.005
	Б	3.13	. 83	3.23	. 83	3.59	19.	3.44	.65	4.01	3/291	600.
No Endless Referrals	A	3.47	.64	3.00	1.00	2.72	8000	2.77	. 85	3.74	3/294	.02
	A	3.60	.63	3.71	.46	3.29	. 63	3.37	.74	2.90	3/293	.004
No Red Tape	V	2.93	96.	2.48	.93	2.06	. 83	2.05	.93	5.77	3/294	.001
-	Б	3.33	. 72	3.62	. 50	3.40	.64	3.44	. 64	. 83	3/294	NS
No Unexplainable Rules	A	2.80	. 86	2.43	86.	2.08	. 85	2.18	.92	3,47	3/294	.02
10	A	3.27	. 70	3.57	09.	3.36	.65	3.46	09.	1.34	3/294	NS

A = Actual

P = Preferred

Table A-3
ACTUAL AND PREFERRED RESPONSES OF NAVY OFFICERS
STRATIFIED BY REGION

Measures		New England	and	ш	East	South	다	Midwest	es t	West	.	None of the abov	above			
		×	SD	×	SD	×	SD	×	SD	×	SD	×	SD	LL.	df	ă
Managerial Support	AA	4.20	. 51	4.07	1.05	4.10	.54	3.93	1.09	4.04	. 55	3.67	1.52	. 89	5/291	NS
Managerial Goal Emph	AA	4.10	. 82	3.84	.95	3.83	.65	3.70	.97	3.79	1.06	3.55	1.12	. 85	5/287 5/285	NS NS
Managerial Work Facil	VA	3.16	96.	3.06	1.00	3.05	. 84	3.14	1.07	3.18	1.02	2.77	.61	.39	5/289	. 02
Managerial Intera Facil	Αd	3.67	1.18	3.58	1.00	3.46	1.06	3.41	1.02	3.57	1.13	3.15	1.49	1.84	5/290	NS
Peer Support	A	4.28	.58	4.38	.83	4.02	.75	3.93	.63	4.32	. 53	3.67	. 65	1.57	5/290	NS
Peer Goal Emphasis	AA	3.78	.51	3.60	.58	3.45	.81	3.41	. 53	3.46	. 56	3.30	.63	1.25	5/289 5/288	NS
Peer Work Facil	Ad	3.43	. 82	3.34	1.11	3.17	.63	3.11	.92	3.15	.77	3.03	. 95 53	.98	5/289	NS NS
Peer Intera Facil	A	3.39	. 88	3.35	1.02	3.04	.85	3.10	1.02	3.13	.64	2.93	1.13	1.21	5/290	NS
Hum Fac Awareness	A	4.44	.47	4.40	.58	4.26	99.	4.30	.55	4.34	.50	4.36	.78	.62	5/292	NS
Theory X	A	3.46	. 54	3.46	.73	3.46	. 56	3.40	. 70	3.26	.63	3.10	.72	1.16	5/292	NS
Job Challenge	Ad	3.28	.37	3.04	.39	3.07	. 32	3.09	.51	3.10 3.61	.28	3.07	.73	.71	5/292	NS
													_			

Table A-3 (continued)

Measures		New England	and	ŭ	ast	South	큠	Midwest	es t	West	ىد	None	of above			
		×	SD	×	SD	×	SD	×	SD	><	SD	×	SD	LL	df	þ<
No One to Boss Me	V A	2.47	1.01	2.26	1.01	2.23	99.	2.52	98.	2.26	1.01	2.60	.74	1.00	5/292 5/292	NS
Steady, No Layoffs	Ø ₽	3.47	.81	3.42	.90	3.40	. 82	3.44	.85	3.40	. 78	3.50	76.	2.07	5/291	NS
Clean Job	Ad	3.23	1.01	3.13	. 82	3.48	.80	3.31	.82	3.32	.76	2.70	1.16	1.92	5/292	NS
Lots of Free Time	Ad	1.83	.88	1.93	98.	2.02	.93	1.74	ο. ω α	1.75	. 80	1.40	. 79	1.39	5/292	NS
Good Pay	K Q	2.87	1.01	2.85	.58	3.17	.63	2.93	. 59	2.84	. 82	3.60	1.03	1.02	5/292	NS
Prestigious Job	V Q	2.72	. 88	2.57	66 .	2.75	.70	2.68	.90	2.67	.93	2.60	.84	.52	5/290	NS
Friendly People	A	3.40	. 50	3.31	.64	3.40	.57	3.28	.66	3.23	.63	3.20	.63	. 98	5/292	NS
Stay in One Place	A	1.86	.88	1.67	.89	1.96	1.05	1.80	.95	1.68	.91	1.20	. 95	1.48	5/291 5/292	NS
Serve My Country	Ad	3.23	.82	3.24	.83	3.33	.83	3.27	.76	3.25	. 91	3.20	.63	. 93	5/292 5/291	NS
Make World Better	Ad	3.10	. 84	2.64	.98	2.98	.73	2.79	. 78	2.96	.95	2.70	.74	1.56	5/291	NS
Fringe Benefits	V d	3.43	.63	3.28	.74	3.58	.54	3.51	.78	3.39	. 28	3.60	. 52	1.30	5/292	NS
													_			

Table A-3 (continued)

Measures		New	New England	ũ	East	South	돠	Midw	Midwest	West	ب	None	None of the above			
		×	SD	×	SD	×	SD	×	SD	×	SD	×	SD	щ	df	Ď
Control Personal Life	4 A	2.53 1.01	1.01	3.36	.92	2.73	. 58	2.41	1.05	2.46	16.	2.70	. 82	1.13	5/292	NS
No Endless Referrals	A	3.03	.83	2.76	. 20	2.85	.49	2.74	.69	3.41	. 79	3.20	.79	.61	5/292	NS NS
No Red Tape	₹ ₽,	2.23	. 27	2.15	. 64	2.25	.93	2.17	.98	3.40	. 88	3.40	.63	1.10	5/292	NS
No Unexplainable Rules	A d	2.23	. 72	2.17	89. 99.	2.40	.92	2.20	.91	3.46	.92	2.20	.92	1.11	5/292	NS
	4			•			1			•)					

A = Actual
P = Preferred

ACTUAL AND PREFERRED RESPONSES OF NAVY OFFICERS STRATIFIED BY COMMUNITY

Table A-4

													- 1
Measures		Rural al	area m	Town o	or city	Subu	Suburban area	Large	rge :y				1
		×	SD	×	SD	×	SD	×	SD	14	df	>d	
Managerial Support	Ø	4, 10	1.01	4.07	60.	3,99	1.06	3.94	1.06	. 32	3/291	NS	
	. A	4.50	0	4	. 56	3	. 52	4.56		24	0	NS	
Managerial Goal Emph	A	3.70	1.02	3.85	.91	3.89	1.02	3.70	1.00	.65	3/287	NS	
	A	4.51	0	4.50		4.64	09.	4.64	. 43	24	3/285	NS	
Managerial Work Facil	A	3.10	1.00	3.08	.92	3.18	1.09	3.04	1.04	.23	/2	NS	
)	A	4.01	.74	3.99	.71	4.20	.75	4.04	. 76	1.42	3/289	NS	
Managerial Intera Facil	V	3.47	1.20	3.51	1.02		1.16	3.58	1.09	.08	/2	NS	
	A	4.33	. 81	4.29	99.	4.39	69.	4.42	. 58	. 54	3/289	NS	
Peer Support	A	3.90	. 70	0.	99.		.65	3.83	.91		/29	.05	
	D	4.25	. 55	4.35	. 54	4.45	. 54	4.32	. 59	1.48	3/290	NS	
Peer Goal Emphasis	A	3.35	.91	3.51	8.	3.58	.93		.83	.78	-	NS	
-	A	4.23		4.39	. 54	4.44	19.	4.47	09.	3	3/288	NS	
Peer Work Facil	V A	3.10	. 83	3.14	.87	3.32	86.	3.37	96.	1.29	3/289	SN	
	("		. (, ,				(0007	Ç	
Peer intera Facil	A d	3.85	.75	3.18	. 70	3.61	999	3.21	. 72	1.03	3/290	SN	
Hum Fac Awareness	A	4.40	.47	4.30	. 56	4.35	.61	4.33	09.	. 38	3/292	NS	
Theory X	A	3.29	. 60	3.47	.65	3.3]	.72	3,49	.63	1.76	3/292	NS	
Job Challenge	A	3.05	. 33 83	3.07	.36	3.16	. 29	3.16	.34	.68	3/292	NS NS	

Table A-4 (continued)

Measures		Rural an	area	Town c	or city	Suburban	-ban	Large	ge			
		×	SD	×	SD	×	SD	×	SD	14-	df	p<
No One to Boss Me	A	2.06	.94	2.53	91.	2.28	1.08	2.37	1.10	2.74	3/292	.05 NS
Steady, No Layoffs	A	3.51	.88	3.45	77.	3.37	. 84	3.46	.75	.31	3/291	SN
Clean Job	A	3.45	. 20	3.23	. 73	3.31	. 84	3.13	98.	1.34	3/292	SN
Lots of Free Time	A	1.80	.80	1.83	.93	1.79	.83	1.87	98. 88.	.10	3/292	NS NS
Good Pay	A	3.29	.52	2.99	.62	2.78	.58	2.59	. 63	6.38	3/292	.0003 NS
Prestigious Job	A	2.67	90.	2.76	.86	2.51	. 85 85	2.54	1.09	.72	3/290	SN
Friendly People	A	3.22	.55	3.32	.65	3.35	.71	3.28	.72	. 29	3/292	NS
Stay in One Place	A	1.55	. 78	1.85	.86	1.67	.98	1.87	1.06	1.66	3/291	SN
Serve My Country	A	3.16	. 93	3.24	.92	3.37	.73	3.24	.90	.78	3/292	NS WS
Make World Better	A	2.82	.75	2.79	. 88 82	2.91	. 73	2.74	96.	.47	3/291	NS
Fringe Benefits	A	3.47	.59	3.50	.70	3.35	.78	3.39	. 83	76.1	3/292	NS NS

Table A-4 (continued)

Measures		Rural are or farm	area	Town or small city	or city	Suburban area	rban	Laı	Large city			
		×	SD	×	SD	×	SD	×	SD	L	df	>d
Control Personal Life	A	2.33	66.	2.50	.92	2.49	.94	2.54	1.00	.52	3/292	NS
	B	3.47	. 62	3.50	.61	3.46	. 64	3.43	69.	. 13	3/289	NS
No Endless Referrals	A	2.76	.92	2.75	.92	2.89	.76		.93	. 46	3/292	NS
	A	3.47	. 54	3.37	.67	3.28	. 80	3.50	. 59	1.42	3/291	NS
No Red Tape	V	2.08	.91	2.13	88	2.12	.93	2.15	66.	.05	3/292	NS
***	A	3.39	.57	3.47	. 62	3.41	.70	3.46	. 59	.26	3/292	NS
No Unexplainable Rules	V	2.29	1.00	2.08	.87	2.30	. 86	2.15	66.	1.13	3/292	NS
	D	3,45	. 58	3.46	. 55		. 74	3.46	. 62	.61	3/292	NS

A = Actual

P = Preferred

References

- Bowers, D.G. <u>Values and their impact for Navy and civilian respondents</u>. Institute for Social Research, University of Michigan: Ann Arbor, June, 1973.
- Bowers, D.G. & Franklin, J.L. <u>The Navy as a functioning organization:</u>
 a diagnosis. Institute for Social Research, University of Michigan: Ann Arbor, June, 1973.
- Michaelsen, L.K. A methodology for the studies of the impact of organizational values, preferences, and practices on the All-Volunteer Navy. Institute for Social Research, University of Michigan:
 Ann Arbor, June, 1973.

Distribution List

Dr. John A. Nagay Director Organizational Effectiveness Research Program (Code 452) Arlington, Va. 22217

Director
U.S. Naval Research Lab
Attn: Technical Information Division
Washington, D.C. 20390

Defense Documentation Ctr. Bldg. 5 Cameron Station Alexandria, Va. 22314

Library Code 2029 U.S. Naval Research Laboratory Washington, D.C. 20390

Science & Technology Division Library of Congress Washington, D.C. 20540

Director ONR Branch Office 495 Summer St. Boston, Mass. 02210

Psychologist ONR Branch Office 495 Summer St. Boston, Mass. 02210

Director ONR Branch Office 536 S. Clark St. Chicago, Ill. 60605

Research Psychologist ONR Branch Office 536 S. Clark St. Chicago, Ill. 60605

Director
ONR Branch Office
1030 E. Green St.
Pas adena, Ca. 91106

Psychologist ONR Branch Office 1030 E. Green St. Pasadena, Ca. 91106

Cdr. Howard Ewy Bureau of Naval Personnel Navy Annex Washington, D.C. 20370

Mr. David Segal U.S. Army Research Institute 1300 Wilson Blvd. Arlington, Va. 22209

HQ, USAF Code AF DPXYA Pentagon, Rm. 50360 Attn: MAJ John Johnston Washington, D.C. 20330

Military Asst. for Human Resources OAD (E&LS) ODDR&E Pentagon 3D129 Washington, D.C. 20301

DR. G.L. Bryan (code 450) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

LCDR R.D. Matulka (Code 430C) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Mr. M. Denicoff, Code 437 Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Dr. M.J. Farr (Code 458) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Mr. J.R. Simpson (Code 462) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217 Dr. Bert T. King (Code 452)
Associate Director
Office of Naval Research
800 N. Quincy St.
Arlington, Va. 22217

Dr. R.J. Lundegard (Code 430) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Dr. T.C. Varley (Code 434) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Dr. M.A. Tolcott (Code 455) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Mr. R.J. Miller (Code 462) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Dr. H.W. Sinaiko (Code 450) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Asst. Chief for Research (Code 400) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Director of Research (COde 401) Office of Naval Research 800 N. Quincy St. Arlington, Va. 22217

Director (Code 460)
Naval Applications and Anal. Div.
Office of Naval Research
800 N. Quincy St.
Arlington, Va. 22217

Research Psychologist Office of Naval Research Branch Ofc. 536 S. Clark St. Chicago, Ill. 60605

Psychologist Office of Naval Research Branch Ofc. 495 Summer St. Boston, Mass. 02210 Psychologist Office of Naval Research Branch Ofc. 1030 E. Green St. Pasadena, Ca. 91106

Deputy Chief Scientist Office of Naval Research Area Ofc. 207 West 24th St. New York, N.Y. 10011

Head of Manpower Trg. and Reserve Grp. (Op-964D) Rm. 4A538, Pentagon Washington, D.C. 20350

Asst. to the Asst. Deputy Chief of Naval Operations (Manpower) (Op-O1BZ2) Rm. 4E473, The Pentagon Washington, D.C. 20350

Deputy Dir., Prog. Mgmt. Ofc. Naval Material Command (03PB) Rm. 868, Crystal Plaza #6 2221 Jefferson Davis Highwy Arlington, Va. 20360

Prog. Administrator, Personnel and Trg. Station, Naval Material Command (93424 820 Crystal Plaza:#6 2221 Jefferson Davis Hwy Arlington, Va. 20360

Special Asst. for Enlisted Force Analysis Naval Bureau of Personnel (Ax) Rm 2611, Arlington Annex Washington, D.C. 20370

Head, Proj. Volunteer Coordination Branch Naval Bureau of Personnel (A25) Rm. 2603, Arlington Annex Washington, D.C. 20370

Technical Dir., Personnel Research Div. Naval Burear of Personnel (A3t) Rm. 3077, Arlington Annex Washington, D.C. 20370

Special Asst. to the Chief of Naval Personnel Naval Burear of Personnel (Oe) Rm. 2403, Arlington Annex Washington, D.C. 20370

Deputy Chief of Naval Operations, Manpower and Naval Reserve Pentagon, Rm. 4E470 Washington, D.C. 20350 Asst. Secretary of the Navy (Manpower and Reserve Affairs) Pentagon, Rm. 4E788 Washington, D.C. 20350

Director, Prog. Planning Ofc. (Op-090) Pentagon, Rm. 4E620 Washington, D.C. 20350

Asst. Chief of Naval Personnel (PLans and Programs) Arlington Annex, 2064 Arlington, Va. 20370

Special Asst. (ACNP) Enlisted Force Analysis Arlington Annex, 2611 Arlington, Va. 20370

Director Personnel Research Div. (PERS A-3) Arlington Annex, 3077 Arlington, Va. 20370

Technical Director Personnel Res. Div. (PERS A-3t) Arlington Annex, 3077 Arlington, Va. 20370

Asst. Chief of Naval Personnel for Personal Affairs (PERS P) Arlington Annex, 2803 Washington, D.C. 20370

Director, Career Motivation Plans and Programs Division (PERS P-1) Arlington Annex 2811 Washington, D.C. 20370

Director, Career Information and Publications Div. (PERS P-3) Arlington Annex, 1070 Washington, D.C. 20370

ADCNO (Manpower) Pentagon, 4E474 Washington, D.C. 20350

Commander
Navy Recruiting Command
Ballston Center Tower, #3, 216
Arlington, Va. 22203

Director
Plans Department
Navy Recruiting Command
Ballston Center Tower #3, 212A
Arlington, Va. 22203

Director, Recruiting Dept.
Navy Recruiting Command
Ballston Center Tower #3, 214C
Arlington, Va. 22203

Director Advertising Dept. Navy Recruiting Command Washington Navy Yard, BG157 Washington, D.C. 20390

Director
Naval Education and Training
Ballston Center Tower #2, 923
Arlington, Va. 22203

Chief of Naval Research Ballston Center Tower #1, 907 Arlington, Va. 22217

Director
Systems Analysis Div. (Op-96)
Pentagon, 4A526
Washington, D.C. 20350

Head, Support Forces Manpower and Logistics Branch 10p-964 Pentagon, 4A538 Washington, D.C. 20350

Commandant U.S. Marine Corps. Arlington Annex, 2004 Arlington, Va. 20380

DCS (Manpower)
U.S. Marine Corps.
Arlington Annex, 2034
Arlington, Va. 20380

Head Personnel Research Branch, USMC Bg 4, Henderson Hall Arlington, Va. 22214 Head
Manpower Planning/Programming
and Budgeting Branch, USMC
Arlington Annex, 4108
Arlington, Va. 20380

Head
Manpower Mgmt. Information
Systems Branch, USMC
Arlington Annex, 1436
Arlington, Va. 20380

Assistant for Personnel Logistics (Op 98 TL)
Pentagon, 48489
Washington, D.C. 20350

Chief of Naval Development Crystal Plaza 5, 386 Arlington, Va. 20360

Director of Navy Laboratories Crystal Plaza 5, 300 Arlington, Va. 20360

Support Technology Branch
Personnel and Training
Crystal Plaza 6, 820
Arlington, Va. 20360

Director
Personnel and Training
Research Programs
Office of Naval Research
Arlington, Va. 22217

Director Naval Research Laboratory Code 2627 Washington, D.C. 20390

Defence Documentation Ctr. Cameron Station, Bldg. 5 5010 Duke St. Alexandria, Va. 22314

Chairman
Behavioral Science Dept
Naval Command and Management Div.
U.S. Naval Academy
Luce Hall
Annapolis, Md. 21402

Chief of Naval Air Training Code 017 Naval Air Station Pensacola, Fl. 32508

Attn: Capt. Allen E. McMichael Chief of Naval Training Naval Air Station Pensacola, Fl. 32508

Chief of Naval Technical Training Naval Air Station Memphis (75) Millington, Tenn. 38054

Chief Bureau of Medicine and Surgery Code 513 Washington, D.C. 20390

Chief
Bureau of Medicine and Surgery
Research Division (Code 713)
Department of the Navy
Washington, D.C. 20390

Commanding Officer Naval Medical Neuropsychiatric Research Unit San Diego, Ca. 92152

Commanding Officer Naval Personnel and Trg. Res. Lab. San Diego. Ca. 92152

Attn: Library (Code 2124) Superintendent Naval Postgraduate School Monterey, Ca. 93940

Technical Director
Naval Personnel Research and
Development Lab
Washington Navy Yard
Bldg 200
Washington, D.C. 20390

Technical Reference Library Naval Medical Research Institute National Naval Medical Center Bethesda, Md. 20014 Behavioral Sciences Department Naval Medical Research Institute National Navan Medical Center Bethesda, Md. 20014

Mr. George N. Graine Naval Ship Systems Command (SHIPS 03H) Department of the Navy Washington, D.C. 20360

Dr. James J. Regan Code 55 Naval Training Device Ctr. Orlando, Fl. 32813

Dr. A.L. Slafkosky Scientific Advisor (Code Ax) Commanant of the Marine Corps. Washington, D.C. 20380

Behavioral Sciences Div.
Office of Chief of Research
and Development
Department of the Army
Wachington, D.C. 20310

U.S. Army Behavior and Systems Research Lab Rosslyn Commonwealth Bldg, Rm 239 1300 Wilson Blvd Arlington, Va. 22209

Army Motivation and Trg Lab Rm 239, Commonwealth Bldg 1300 Wilson Bld Arlington, Va. 22209

AFHRL (TR/Dr. G.A. Eckstrand) Wright-Patterson Air Force Base Ohio 45433

AFHRL/MD Rm 200, 701 Prince St. Alexandria, Va. 22314

COMMANDANT
USAF School of Aerospace Medicine
Attn: Aeromedical Library (SCL-4)
Brooks AFB, TX 78235

Personnel Research Div. AFHRL Lackland AFB San Antonio, Texas 78236

Headquarters
UASF, Chief, Personnel Research and
Analysis Division (AF/DPXY)
Washington, D.C. 20330

Office of Asst. Secretary (M&RA) Chief, Manpower Pentagon, 2E589 Washington, D.C. 20350

Office of the Special Asst for the Modern Volunteer Army Pentagon, 3C639 Washington, D.C. 20350

Attn: MAJ H. Taylor ODDR&E Asst Dir for Environmental and Life Sciences Pentagon, 3D129 Washington, D.C. 20350

Director, Human Resources Research (ARPA) 713 Architect Bldg. 1400 Wilson BLD. Arlington, Va. 22209

Deputy Asst Sec, Manpower Res and Utilization Pentagon, 3D962 Washington, D.C. 20350

Director, Manpower Research Pentagon, 3D980 Washington, D.C. 20350

Dr. Herbert R. Northrup Wharton School of Finance & Commerce University of Pennsylvania Philadelphia, Pa. 19104

Prof. Ezra S. Krendel Dept. of Operations Research University of Pennsylvania Philadelphia, Pa. 19104 Dr. E.A. Fleishman American Institute for Research 8555 Sixteenth St. Silver Spring, Md. 20910

Mr. Phillip G. Bernard B-k Dynamics, Inc. 2351 Shady Grove Rd. Rockville, Md. 20850

Dr. Barry M. Feinberg Bureau of Social Science Research, Inc. 1990 M St., W. Washington, D.C. 20036

Prof. Robert M. Oliver University of California Operations Research Center Berkeley, Calif. 94720

Dr. Richard S. Hatch Decision Systems Associates, Inc. 11428 Rockville Pike Rockville, Md. 20852

Dr. Anita S. West Denver Research Institute University Park Denver, Colorado 80210

Dr. Henry Solomon George Washington University Department of Economics Washington, D.C. 20006

Mr. John P. Thomas Hudson Institute Quaker Ridge Rd. Croton-on-Hudson, N.Y. 10520

Mr. James N. Kelly Mgmt. Analysis Ctr., Inc. 745 Concord Ave. Cambridge, Mass. 02138

Dr. Allan H. Fisher, Jr. HumRRO 300 N. Washington St. Alexandria, Va. 22314

Mr. Will E. Lassiter Data Solutions Corp 5272 River Rd., Suite 100 Bethesda, Md. 20016 Dr. Jack R. Borsting
Dept of Operations Research
Naval Postgraduate School
Monterey, Calif. 93940

Mr. Michael W. Brown Operations Research, Inc. 1400 Spring St. Silver Spring, Md. 20850

Dr. Marvin Dunnette Personnel Decisions, Inc. 2515 Foshay Tower Minneapolis, Minn. 55402

Dr. Norman M. Abrahams Naval Personnel and Training Research Lab San Diego, Calif. 92152

Mr. R. Bard Battelle Stanford Research Institute Naval Warfare Research Center Menlo Park, Calif. 94025

Dr. Gloria L. Grace System Development Corp. 2500 Colorado Ave. Santa Monica, Calif. 90406

Dr. Leonard Carmichael The Smithsonian Institution Washington, D.C. 20560

Deputy and Chief Scientist (Code 102) Office of Naval Research Arlington, Va. 22217

Manager, Program in Manpower R&D (Code 450) Office of Naval Research Arlington, Va. 22217

Director Naval Applications and Analysis Div (Code 460 Office of Naval Research Arlington, Va. 22217

Asst to the Asst Deputy Chief of Naval Operations (Manpower) (Op-O1CZ2) Rm 2633, Arlington Annex Washington, D.C. 20370

Technical Director Navy Personnel Research and Dev. Ctr. San Diego, Calif. 92152 Asst. for Research Liaison Naval Bureau of Personnel (Pers-12) Rm. 1416, Arlington Annex Washington, D.C. 20370

Senior Research Coordinator Naval Bureau of Personnel (Pers 12t) Rm 1416, Arlington Annex Washington, D.C. 20370

Special Asst. for Enlisted Force Anal. Naval Bureau of Personnel (Pers-2x) Rm 2628, Arlington Annex Washington, D.C. 20370

Head
Program Development and
Coordination Branch
Naval Bureau of Personnel (Pers-225)
Rm. 2606, Arlington Annex
Washington, D.C. 20370

Director of Manpower Research Office of the Secretary of Defense Rm. 3D960, The Pentagon Washington, D.C. 20301 Assistant Director for Environment and Life Sciences Office of the Director of Defense Research and Engineering Rm. 3D129, The Pentagon Washington, D.C. 20301

Military Assistant for Human Resources Office of the Director of Defense Research and Engineering Rm 3D129, The Pentagon Washington, D.C. 20301

Special Asst. for All Volunteer Force Action Office of the Asst Sec of Defense (Manpower and Reserve Affairs)
Room 2C270, The Pentagon
Washington, D.C. 20301

Research Study Director A & I 3101 Smithsonian Institution Washington, D.C. 20560